

T H E

D I S T I L L E R ' s

V A D E - M E C U M.

50

1883

DISTILLERS

WATER

713
7.22

THE
DISTILLER'S *Vade-Mecum*:

B E I N G

A Complete SET of TABLES, exhibiting at
ONE VIEW the exact Weight of

SPIRITUOUS LIQUORS;

From the lowest Quality to Alcohol, for any Num-
ber of Gallons, from 50 to 252, or One Ton.

TOGETHER WITH

Some useful RULES for calculating the different
STRENGTHS of SPIRITS,

In the most *simple and correct* Manner, by the Pen.

Adapted to *Clarke's* HYDROMETER.

TO WHICH IS ADDED,

A TABLE, shewing the Weight of VINEGAR.

ALSO,

A very useful TABLE, shewing the Value of One Gallon of
Spirits of any proposed Strength; corresponding with the
comparative Value of One Gallon of any other Strength.

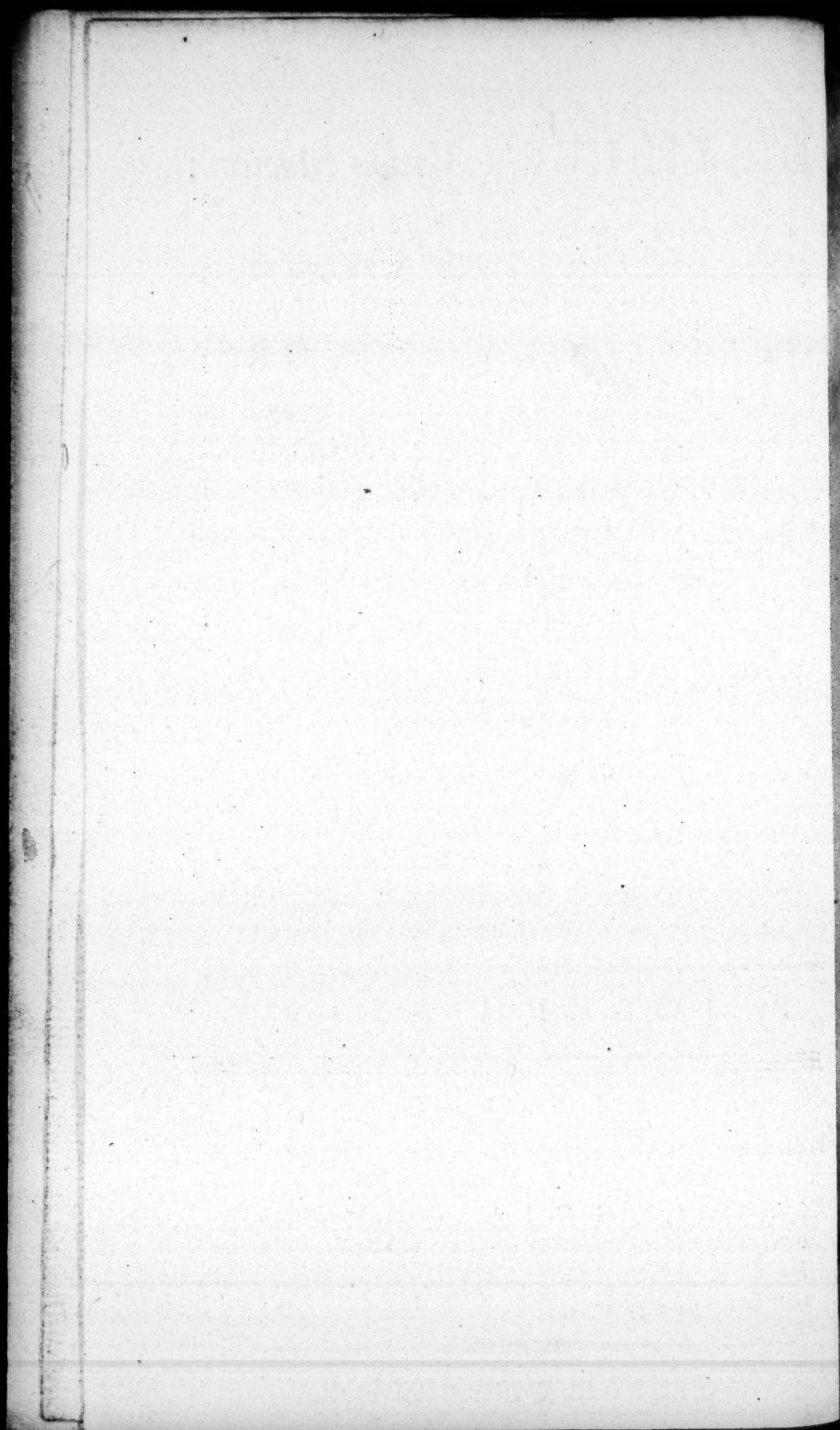
By J O S E P H A T L A Y.

B R I S T O L:

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Makers to the Hon. Board of Excise, No. 6, Tooley-Street,
near London-Bridge.—1792.

Enter'd at Stationers-Hall.



P R E F A C E.

AS no Book of this Kind has ever been publish'd; the Author humbly presumes it will be found a WORK of great Utility; as it will entirely exterminate every Error and Inconvenience in the weighing of *Spirits* of a higher or lower Degree of Strength: Which according to the common Table now generally made Use of, can seldom agree with the true Gage, or Measure: Consequently the Trader must at Times be a considerable gainer, or looser in Quantity, according to the Strength of his Goods.

It will likewise facilitate the Danger of Mistakes in calculating the different Value of *Spirits* according to their Strengths, with respect to each other.

AND in regard to the Accuracy of the Measure of *Liquids*; the Author has had recourse to the Standard kept by the Mayor and Corporation of the City of *Bristol*: And which was adjusted by the Standard kept at His Majesty's Exchequer in the Year 1787. By which and Weights lately examined and adjusted by the Standard; the fundamental Principles of the following Tables were established, by *actual Experiment* to the greatest Nicety.

THE greatest Correctness has also been adhered to in all the Calculations: tho' Ounces, Drams and Parts are not inserted in the Tables; they being unnecessary for common Use: but are added when more than half a Pound: Consequently the Tables can never vary more than a few Ounces under or over the exact Weight, let the Quantity be ever so large.

THE Fractional Parts of a Farthing in the last Table are likewise omitted; being of no Use, and would tend only to swell the Book, and perplex the Eye.

IN respect to the very trifling decrease in Quantity or Strength sustained by mixture; the Author's own Experience (even in large Quantities;) convinces him that that is more for the Amusement of the Curious; than of real Utility to the Trader: As it greatly depends upon the Quality, as well as Quantity of the Water made Use of.

THE Author has taken the greatest Pains to complete this WORK upon as compact and concise a Plan as possible: As he conceives it will be found the more convenient, useful, and ready for Practice.

BRISTOL, OCTOBER 16th, 1792.

EXPLANATION of the following TABLES.

THE First Tables for the Weight of Spirits and Vinegar, are too obvious to need any Explanation.

The last Table respecting the Value of Spirits; shews, that if One Gallon of Spirits at Hydrometer Proof be valued at 4s. 9d. when the same is lower'd to 1 in 5 under Hydrometer Proof, the Value of One Gallon will be only 3s. 9d $\frac{1}{2}$. and so of all the Rest.

The small Letters inserted in said Table, are placed by Way of Guide for the Eye; or Reference to the opposite Side, or next Leaf.

ERRATA.

In Table Aqua, 3d Column, bottom line, for 177,
read 117.—In Title of last Table 4th line, for
given, read proposed.

T A B L E S,

S H E W I N G

The W E I G H T of

S P I R I T U O U S L I Q U O R S,

From the lowest Q U A L I T Y

T o A L C O H O L,

From 50 G A L L O N S, to a T O N.

Aqua.

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 3 3	84	6 1 10	118	8 3 17
51	3 3 11	85	6 1 18	119	8 3 26
52	3 3 20	86	6 1 27	120	9 0 6
53	4 0 0	87	6 2 7	121	9 0 15
54	4 0 8	88	6 2 16	122	9 0 23
55	4 0 17	89	6 2 24	123	9 1 4
56	4 0 25	90	6 3 5	124	9 1 12
57	4 1 6	91	6 3 13	125	9 1 21
58	4 1 14	92	6 3 22	126	9 2 1
59	4 1 23	93	7 0 2	127	9 2 9
60	4 2 3	94	7 0 11	128	9 2 18
61	4 2 12	95	7 0 19	129	9 2 26
62	4 2 20	96	7 0 27	130	9 3 7
63	4 3 0	97	7 1 8	131	9 3 15
64	4 3 9	98	7 1 16	132	9 3 24
65	4 3 17	99	7 1 25	133	10 0 4
66	4 3 26	100	7 2 5	134	10 0 13
67	5 0 6	101	7 2 14	135	10 0 21
68	5 0 15	102	7 2 22	136	10 1 2
69	5 0 23	103	7 3 3	137	10 1 10
70	5 1 4	104	7 3 11	138	10 1 18
71	5 1 12	105	7 3 20	139	10 1 27
72	5 1 21	106	8 0 0	140	10 2 7
73	5 2 1	107	8 0 8	141	10 2 16
74	5 2 9	108	8 0 17	142	10 2 24
75	5 2 18	109	8 0 25	143	10 3 5
76	5 2 26	110	8 1 6	144	10 3 13
77	5 3 7	111	8 1 14	145	10 3 22
78	5 3 15	112	8 1 23	146	11 0 2
79	5 3 24	113	8 2 3	147	11 0 11
80	6 0 4	114	8 2 12	148	11 0 19
81	6 0 13	115	8 2 20	149	11 0 27
82	6 0 21	116	8 3 1	150	11 1 8
83	6 1 2	177	8 3 9	151	11 1 16

Aqua.

Gal.	C.	Q.	lb.	Gal.	C.	Q.	lb.	Gal.	C.	Q.	lb.
152	11	1	25	186	14	0	5	220	16	2	12
153	11	2	5	187	14	0	13	221	16	2	20
154	11	2	14	188	14	0	21	222	16	3	1
155	11	2	22	189	14	1	2	223	16	3	9
156	11	3	3	190	14	1	10	224	16	3	17
157	11	3	11	191	14	1	18	225	16	3	26
158	11	3	20	192	14	1	27	226	17	0	6
159	12	0	0	193	14	2	7	227	17	0	15
160	12	0	8	194	14	2	16	228	17	0	23
161	12	0	17	195	14	2	24	229	17	1	4
162	12	0	25	196	14	3	5	230	17	1	12
163	12	1	6	197	14	3	13	231	17	1	21
164	12	1	14	198	14	3	22	232	17	2	1
165	12	1	23	199	15	0	2	233	17	2	10
166	12	2	3	200	15	0	11	234	17	2	18
167	12	2	12	201	15	0	19	235	17	2	26
168	12	2	20	202	15	0	27	236	17	3	7
169	12	3	1	203	15	1	8	237	17	3	15
170	12	3	9	204	15	1	16	238	17	3	24
171	12	3	17	205	15	1	25	239	18	0	4
172	12	3	26	206	15	2	5	240	18	0	13
173	13	0	6	207	15	2	14	241	18	0	21
174	13	0	15	208	15	2	22	242	18	1	2
175	13	0	23	209	15	3	3	243	18	1	10
176	13	1	4	210	15	3	11	244	18	1	19
177	13	1	12	211	15	3	20	245	18	1	27
178	13	1	21	212	16	0	0	246	18	2	7
179	13	2	1	213	16	0	8	247	18	2	16
180	13	2	10	214	16	0	17	248	18	2	24
181	13	2	18	215	16	0	25	249	18	3	5
182	13	2	26	216	16	1	6	250	18	3	13
183	13	3	7	217	16	1	14	251	18	3	22
184	13	3	15	218	16	1	23	252	19	0	2
185	13	3	24	219	16	2	3				

1. in 2. (U.P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 2 12	84	6 0 7	118	8 2 1
51	3 2 20	85	6 0 15	119	8 2 9
52	3 3 0	86	6 0 23	120	8 2 18
53	3 3 8	87	6 1 3	121	8 2 26
54	3 3 16	88	6 1 11	122	8 3 6
55	3 3 24	89	6 1 19	123	8 3 14
56	4 0 4	90	6 1 27	124	8 3 22
57	4 0 13	91	6 2 7	125	9 0 2
58	4 0 21	92	6 2 15	126	9 0 10
59	4 1 1	93	6 2 23	127	9 0 18
60	4 1 9	94	6 3 3	128	9 0 26
61	4 1 17	95	6 3 12	129	9 1 6
62	4 1 25	96	6 3 20	130	9 1 14
63	4 2 5	97	7 0 0	131	9 1 22
64	4 2 13	98	7 0 8	132	9 2 3
65	4 2 21	99	7 0 16	133	9 2 11
66	4 3 1	100	7 0 24	134	9 2 19
67	4 3 9	101	7 1 4	135	9 2 27
68	4 3 17	102	7 1 12	136	9 3 7
69	4 3 25	103	7 1 20	137	9 3 15
70	5 0 6	104	7 2 0	138	9 3 23
71	5 0 14	105	7 2 8	139	10 0 3
72	5 0 22	106	7 2 16	140	10 0 11
73	5 1 2	107	7 2 25	141	10 0 19
74	5 1 10	108	7 3 5	142	10 0 27
75	5 1 18	109	7 3 13	143	10 1 7
76	5 1 26	110	7 3 21	144	10 1 15
77	5 2 6	111	8 0 1	145	10 1 24
78	5 2 14	112	8 0 9	146	10 2 4
79	5 2 22	113	8 0 17	147	10 2 12
80	5 3 2	114	8 0 25	148	10 2 20
81	5 3 10	115	8 1 5	149	10 3 0
82	5 3 19	116	8 1 13	150	10 3 8
83	5 3 27	117	8 1 21	151	10 3 16

1. in 2. (U. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
152	10 3 24	186	13 1 19	220	15 3 14
153	11 0 4	187	13 1 27	221	15 3 22
154	11 0 12	188	13 2 7	222	16 0 2
155	11 0 20	189	13 2 15	223	16 0 10
156	11 1 0	190	13 2 23	224	16 0 18
157	11 1 9	191	13 3 3	225	16 0 26
158	11 1 17	192	13 3 11	226	16 1 6
159	11 1 25	193	13 3 19	227	16 1 14
160	11 2 5	194	13 3 27	228	16 1 22
161	11 2 13	195	14 0 8	229	16 2 2
162	11 2 21	196	14 0 16	230	16 2 10
163	11 3 1	197	14 0 24	231	16 2 18
164	11 3 9	198	14 1 4	232	16 2 27
165	11 3 17	199	14 1 12	233	16 3 7
166	11 3 25	200	14 1 20	234	16 3 15
167	12 0 5	201	14 2 0	235	16 3 23
168	12 0 13	202	14 2 8	236	17 0 3
169	12 0 21	203	14 2 16	237	17 0 11
170	12 1 2	204	14 2 24	238	17 0 19
171	12 1 10	205	14 3 4	239	17 0 27
172	12 1 18	206	14 3 12	240	17 1 7
173	12 1 26	207	14 3 21	241	17 1 15
174	12 2 6	208	15 0 1	242	17 1 23
175	12 2 14	209	15 0 9	243	17 2 3
176	12 2 22	210	15 0 17	244	17 2 11
177	12 3 2	211	15 0 25	245	17 2 20
178	12 3 10	212	15 1 5	246	17 3 0
179	12 3 18	213	15 1 13	247	17 3 8
180	12 3 26	214	15 1 21	248	17 3 16
181	13 0 6	215	15 2 1	249	17 3 24
182	13 0 15	216	15 2 9	250	18 0 4
183	13 0 23	217	15 2 17	251	18 0 12
184	13 1 3	218	15 2 25	252	18 0 20
185	13 1 11	219	15 3 5		

1. in 3. (U. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 2 6	84	5 3 24	118	8 1 15
51	3 2 14	85	6 0 4	119	8 1 23
52	3 2 22	86	6 0 12	120	8 2 3
53	3 3 2	87	6 0 20	121	8 2 11
54	3 3 10	88	6 1 0	122	8 2 19
55	3 3 18	89	6 1 8	123	8 2 26
56	3 3 25	90	6 1 16	124	8 3 6
57	4 0 5	91	6 1 24	125	8 3 14
58	4 0 13	92	6 2 4	126	8 3 22
59	4 0 21	93	6 2 12	127	9 0 2
60	4 1 1	94	6 2 20	128	9 0 10
61	4 1 9	95	6 3 0	129	9 0 18
62	4 1 17	96	6 3 8	130	9 0 26
63	4 1 25	97	6 3 16	131	9 1 6
64	4 2 5	98	6 3 24	132	9 1 14
65	4 2 13	99	7 0 4	133	9 1 22
66	4 2 21	100	7 0 12	134	9 2 2
67	4 3 1	101	7 0 19	135	9 2 10
68	4 3 9	102	7 0 27	136	9 2 18
69	4 3 17	103	7 1 7	137	9 2 26
70	4 3 25	104	7 1 15	138	9 3 6
71	5 0 5	105	7 1 23	139	9 3 14
72	5 0 13	106	7 2 3	140	9 3 22
73	5 0 21	107	7 2 11	141	10 0 2
74	5 1 1	108	7 2 19	142	10 0 10
75	5 1 9	109	7 2 27	143	10 0 18
76	5 1 17	110	7 3 7	144	10 0 26
77	5 1 25	111	7 3 15	145	10 1 6
78	5 2 4	112	7 3 23	146	10 1 13
79	5 2 12	113	8 0 3	147	10 1 21
80	5 2 20	114	8 0 11	148	10 2 1
81	5 3 0	115	8 0 19	149	10 2 9
82	5 3 8	116	8 0 27	150	10 2 17
83	5 3 16	117	8 1 7	151	10 2 25

1. in 3. (U. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
152	10 3 5	186	13 0 24	220	15 2 14
153	10 3 13	187	13 1 4	221	15 2 22
154	10 3 21	188	13 1 12	222	15 3 2
155	11 0 1	189	13 1 20	223	15 3 10
156	11 0 9	190	13 2 0	224	15 3 18
157	11 0 17	191	13 2 7	225	15 3 26
158	11 0 25	192	13 2 15	226	16 0 6
159	11 1 5	193	13 2 23	227	16 0 14
160	11 1 13	194	13 3 3	228	16 0 22
161	11 1 21	195	13 3 11	229	16 1 2
162	11 2 1	196	13 3 19	230	16 1 10
163	11 2 9	197	13 3 27	231	16 1 18
164	11 2 17	198	14 0 7	232	16 1 26
165	11 2 25	199	14 0 15	233	16 2 6
166	11 3 5	200	14 0 23	234	16 2 14
167	11 3 13	201	14 1 3	235	16 2 22
168	11 3 21	202	14 1 11	236	16 3 1
169	12 0 0	203	14 1 19	237	16 3 9
170	12 0 8	204	14 1 27	238	16 3 17
171	12 0 16	205	14 2 7	239	17 3 25
172	12 0 24	206	14 2 15	240	17 0 5
173	12 1 4	207	14 2 23	241	17 0 13
174	12 1 12	208	14 3 3	242	17 0 21
175	12 1 20	209	14 3 11	243	17 1 1
176	12 2 0	210	14 3 19	244	17 1 9
177	12 2 8	211	14 3 27	245	17 1 17
178	12 2 16	212	15 0 7	246	17 1 25
179	12 2 24	213	15 0 15	247	17 2 5
180	12 3 4	214	15 0 22	248	17 2 13
181	12 3 12	215	15 1 2	249	17 2 21
182	12 3 20	216	15 1 10	250	17 3 1
183	13 0 0	217	15 1 18	251	17 3 9
184	13 0 8	218	15 1 26	252	17 3 17
185	13 0 16	219	15 2 6		

1. in 4. (U. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 2 3	84	5 3 19	118	8 1 7
51	3 2 11	85	5 3 27	119	8 1 15
52	3 2 18	86	6 0 7	120	8 1 23
53	3 2 26	87	6 0 15	121	8 2 3
54	3 3 6	88	6 0 23	122	8 2 11
55	3 3 14	89	6 1 2	123	8 2 19
56	3 3 22	90	6 1 10	124	8 2 27
57	4 0 2	91	6 1 18	125	8 3 7
58	4 0 10	92	6 1 26	126	8 3 15
59	4 0 18	93	6 2 6	127	8 3 22
60	4 0 26	94	6 2 14	128	9 0 2
61	4 1 5	95	6 2 22	129	9 0 10
62	4 1 13	96	6 3 2	130	9 0 18
63	4 1 21	97	6 3 10	131	9 0 26
64	4 2 1	98	6 3 18	132	9 1 6
65	4 2 9	99	6 3 25	133	9 1 14
66	4 2 17	100	7 0 5	134	9 1 22
67	4 2 25	101	7 0 13	135	9 2 2
68	4 3 5	102	7 0 21	136	9 2 9
69	4 3 13	103	7 1 1	137	9 2 17
70	4 3 20	104	7 1 9	138	9 2 25
71	5 0 0	105	7 1 17	139	9 3 5
72	5 0 8	106	7 1 25	140	9 3 13
73	5 0 16	107	7 2 5	141	9 3 21
74	5 0 24	108	7 2 12	142	10 0 1
75	5 1 4	109	7 2 20	143	10 0 9
76	5 1 12	110	7 3 0	144	10 0 17
77	5 1 20	111	7 3 8	145	10 0 25
78	5 2 0	112	7 3 16	146	10 1 4
79	5 2 8	113	7 3 24	147	10 1 12
80	5 2 15	114	8 0 4	148	10 1 20
81	5 2 23	115	8 0 12	149	10 2 0
82	5 3 3	116	8 0 20	150	10 2 8
83	5 3 11	117	8 0 27	151	10 2 16

1. in 4. (U. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
152	10 2 24	186	13 0 12	220	15 2 1
153	10 3 4	187	13 0 20	221	15 2 8
154	10 3 12	188	13 1 0	222	15 2 16
155	10 3 19	189	13 1 8	223	15 2 24
156	10 3 27	190	13 1 16	224	15 3 4
157	11 0 7	191	13 1 24	225	15 3 12
158	11 0 15	192	13 2 4	226	15 3 20
159	11 0 23	193	13 2 11	227	16 0 0
160	11 1 3	194	13 2 19	228	16 0 8
161	11 1 11	195	13 2 27	229	16 0 16
162	11 1 19	196	13 3 7	230	16 0 23
163	11 1 27	197	13 3 15	231	16 1 3
164	11 2 6	198	13 3 23	232	16 1 11
165	11 2 14	199	14 0 3	233	16 1 19
166	11 2 22	200	14 0 11	234	16 1 27
167	11 3 2	201	14 0 19	235	16 2 7
168	11 3 10	202	14 0 26	236	16 2 15
169	11 3 18	203	14 1 6	237	16 2 23
170	11 3 26	204	14 1 14	238	16 3 3
171	12 0 6	205	14 1 22	239	16 3 10
172	12 0 14	206	14 2 2	240	16 3 18
173	12 0 22	207	14 2 10	241	16 3 26
174	12 1 1	208	14 2 18	242	17 0 6
175	12 1 9	209	14 2 26	243	17 0 14
176	12 1 17	210	14 3 6	244	17 0 22
177	12 1 25	211	14 3 13	245	17 1 2
178	12 2 5	212	14 3 21	246	17 1 10
179	12 2 13	213	15 0 1	247	17 1 18
180	12 2 21	214	15 0 9	248	17 1 26
181	12 3 1	215	15 0 17	249	17 2 5
181	12 3 9	216	15 0 25	250	17 2 13
183	12 3 16	217	15 1 5	251	17 2 21
184	12 3 24	218	15 1 13	252	17 3 1
185	13 0 4	219	15 1 21		

1. in 5. (U. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 2 1	84	5 3 16	118	8 1 3
51	3 2 9	85	5 3 24	119	8 1 11
52	3 2 16	86	6 0 4	120	8 1 19
53	3 2 24	87	6 0 11	121	8 1 27
54	3 3 4	88	6 0 19	122	8 2 6
55	3 3 12	89	6 0 27	123	8 2 14
56	3 3 20	90	6 1 7	124	8 2 22
57	4 0 0	91	6 1 15	125	8 3 2
58	4 0 8	92	6 1 23	126	8 3 10
59	4 0 15	93	6 2 3	127	8 3 18
60	4 0 23	94	6 2 10	128	8 3 26
61	4 1 3	95	6 2 18	129	9 0 5
62	4 1 11	96	6 2 26	130	9 0 13
63	4 1 19	97	6 3 6	131	9 0 21
64	4 1 27	98	6 3 14	132	9 1 1
65	4 2 7	99	6 3 22	133	9 1 9
66	4 2 14	100	7 0 2	134	9 1 17
67	4 2 22	101	7 0 9	135	9 1 25
68	4 3 2	102	7 0 17	136	9 2 4
69	4 3 10	103	7 0 25	137	9 2 12
70	4 3 18	104	7 1 5	138	9 2 20
71	4 3 26	105	7 1 13	139	9 3 0
72	5 0 6	106	7 1 21	140	9 3 8
73	5 0 13	107	7 2 1	141	9 3 16
74	5 0 21	108	7 2 8	142	9 3 24
75	5 1 1	109	7 2 16	143	10 0 3
76	5 1 9	110	7 2 24	144	10 0 11
77	5 1 17	111	7 3 4	145	10 0 19
78	5 1 25	112	7 3 12	146	10 0 27
79	5 2 5	113	7 3 20	147	10 1 7
80	5 2 12	114	8 0 0	148	10 1 15
81	5 2 20	115	8 0 7	149	10 1 23
82	5 3 0	116	8 0 15	150	10 2 2
83	5 3 8	117	8 0 23	151	10 2 10

1. in 5. (U. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
152	10 2 18	186	13 0 5	220	15 1 20
153	10 2 26	187	13 0 13	221	15 2 0
154	10 3 6	188	13 0 21	222	15 2 8
155	10 3 14	189	13 1 1	223	15 2 16
156	10 3 22	190	13 1 9	224	15 2 24
157	11 0 1	191	13 1 16	225	15 3 4
158	11 0 9	192	13 1 24	226	15 3 11
159	11 0 17	193	13 2 4	227	15 3 19
160	11 0 25	194	13 2 12	228	15 3 27
161	11 1 5	195	13 2 20	229	16 0 7
162	11 1 13	196	13 3 0	230	16 0 15
163	11 1 21	197	13 3 8	231	16 0 23
164	11 2 0	198	13 3 15	232	16 1 3
165	11 2 8	199	13 3 23	233	16 1 10
166	11 2 16	200	14 0 3	234	16 1 18
167	11 2 24	201	14 0 11	235	16 1 26
168	11 3 4	202	14 0 19	236	16 2 6
169	11 3 12	203	14 0 27	237	16 2 14
170	11 3 20	204	14 1 7	238	16 2 22
171	11 3 27	205	14 1 14	239	16 3 2
172	12 0 7	206	14 1 22	240	16 3 9
173	12 0 15	207	14 2 2	241	16 3 17
174	12 0 23	208	14 2 10	242	16 3 25
175	12 1 3	209	14 2 18	243	17 0 5
176	12 1 11	210	14 2 26	244	17 0 13
177	12 1 18	211	14 3 6	245	17 0 21
178	12 1 26	212	14 3 13	246	17 1 1
179	12 2 6	213	14 3 21	247	17 1 8
180	12 2 14	214	15 0 1	248	17 1 16
181	12 2 22	215	15 0 9	249	17 1 24
182	12 3 2	216	15 0 17	250	17 2 4
183	12 3 10	217	15 0 25	251	17 2 12
184	12 3 17	218	15 1 5	252	17 2 20
185	12 3 25	219	15 1 12		

1. in 6. (U.P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 2 0	84	5 3 14	118	8 1 0
51	3 2 7	85	5 3 22	119	8 1 8
52	3 2 15	86	6 0 1	120	8 1 16
53	3 2 23	87	6 0 9	121	8 1 24
54	3 3 3	88	6 0 17	122	8 2 3
55	3 3 11	89	6 0 25	123	8 2 11
56	3 3 18	90	6 1 5	124	8 2 19
57	3 3 26	91	6 1 13	125	8 2 27
58	4 0 6	92	6 1 20	126	8 3 7
59	4 0 14	93	6 2 0	127	8 3 15
60	4 0 22	94	6 2 8	128	8 3 22
61	4 1 2	95	6 2 16	129	9 0 2
62	4 1 9	96	6 2 24	130	9 0 10
63	4 1 17	97	6 3 4	131	9 0 18
64	4 1 25	98	6 3 11	132	9 0 26
65	4 2 5	99	6 3 19	133	9 1 6
66	4 2 13	100	6 3 27	134	9 1 13
67	4 2 21	101	7 0 7	135	9 1 21
68	4 3 0	102	7 0 15	136	9 2 1
69	4 3 8	103	7 0 23	137	9 2 9
70	4 3 16	104	7 1 2	138	9 2 17
71	4 3 24	105	7 1 10	139	9 2 24
72	5 0 4	106	7 1 18	140	9 3 4
73	5 0 12	107	7 1 26	141	9 3 12
74	5 0 19	108	7 2 6	142	9 3 20
75	5 0 27	109	7 2 14	143	10 0 0
76	5 1 7	110	7 2 21	144	10 0 8
77	5 1 15	111	7 3 1	145	10 0 15
78	5 1 23	112	7 3 9	146	10 0 23
79	5 2 3	113	7 3 17	147	10 1 3
80	5 2 10	114	7 3 25	148	10 1 11
81	5 2 18	115	8 0 5	149	10 1 19
82	5 2 26	116	8 0 12	150	10 1 27
83	5 3 6	117	8 0 20	151	10 2 6

1. in 6. (U. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
152	10 2 14	186	13 0 1	220	15 1 15
153	10 2 22	187	13 0 8	221	15 1 23
154	10 3 2	188	13 0 16	222	15 2 3
155	10 3 10	189	13 0 24	223	15 2 10
156	10 3 18	190	13 1 4	224	15 2 18
157	10 3 25	191	13 1 12	225	15 2 26
158	11 0 5	192	13 1 20	226	15 3 6
159	11 0 13	193	13 1 27	227	15 3 14
160	11 0 21	194	13 2 7	228	15 3 21
161	11 1 1	195	13 2 15	229	16 0 1
162	11 1 9	196	13 2 23	230	16 0 9
163	11 1 16	197	13 3 3	231	16 0 17
164	11 1 24	198	13 3 11	232	16 0 25
165	11 2 4	199	13 3 18	233	16 1 5
166	11 2 12	200	13 3 26	234	16 1 12
167	11 2 20	201	14 0 6	235	16 1 20
168	11 3 0	202	14 0 14	236	16 2 0
169	11 3 7	203	14 0 22	237	16 2 8
170	11 3 15	204	14 1 2	238	16 2 16
171	11 3 23	205	14 1 9	239	16 2 24
172	12 0 3	206	14 1 17	240	16 3 3
173	12 0 11	207	14 1 25	241	16 3 11
174	12 0 19	208	14 2 5	242	16 3 19
175	12 0 26	209	14 2 13	243	16 3 27
176	12 1 6	210	14 2 21	244	17 0 7
177	12 1 14	211	14 3 0	245	17 0 15
178	12 1 22	212	14 3 8	246	17 0 22
179	12 2 2	213	14 3 16	247	17 1 2
180	12 2 10	214	14 3 24	248	17 1 10
181	12 2 17	215	15 0 4	249	17 1 18
182	12 2 25	216	15 0 12	250	17 1 26
183	12 3 5	217	15 0 19	251	17 2 6
184	12 3 13	218	15 0 27	252	17 2 13
185	12 3 21	219	15 1 7		

1. in 7. (U. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 1 27	84	5 3 12	118	8 0 26
51	3 2 6	85	5 3 20	119	8 1 6
52	3 2 14	86	6 0 0	120	8 1 14
53	3 2 22	87	6 0 8	121	8 1 21
54	3 3 2	88	6 0 16	122	8 2 1
55	3 3 10	89	6 0 23	123	8 2 9
56	3 3 18	90	6 1 3	124	8 2 17
57	3 3 25	91	6 1 11	125	8 2 25
58	4 0 5	92	6 1 19	126	8 3 4
59	4 0 13	93	6 1 27	127	8 3 12
60	4 0 21	94	6 2 6	128	8 3 20
61	4 1 1	95	6 2 14	129	9 0 0
62	4 1 8	96	6 2 22	130	9 0 8
63	4 1 16	97	6 3 2	131	9 0 16
64	4 1 24	98	6 3 10	132	9 0 23
65	4 2 4	99	6 3 17	133	9 1 3
66	4 2 12	100	6 3 25	134	9 1 11
67	4 2 19	101	7 0 5	135	9 1 19
68	4 2 27	102	7 0 13	136	9 1 27
69	4 3 7	103	7 0 21	137	9 2 6
70	4 3 15	104	7 1 1	138	9 2 14
71	4 3 23	105	7 1 8	139	9 2 22
72	5 0 3	106	7 1 16	140	9 3 2
73	5 0 10	107	7 1 24	141	9 3 10
74	5 0 18	108	7 2 4	142	9 3 17
75	5 0 26	109	7 2 12	143	9 3 25
76	5 1 6	110	7 2 19	144	10 0 5
77	5 1 14	111	7 2 27	145	10 0 13
78	5 1 21	112	7 3 7	146	10 0 21
79	5 2 1	113	7 3 15	147	10 1 1
80	5 2 9	114	7 3 23	148	10 1 8
81	5 2 17	115	8 0 3	149	10 1 16
82	5 2 25	116	8 0 10	150	10 1 24
83	5 3 4	117	8 0 18	151	10 2 4

1. in 7. (U. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
152	10 2 12	186	12 3 25	220	15 1 11
153	10 2 19	187	13 0 5	221	15 1 19
154	10 2 27	188	13 0 13	222	15 1 27
155	10 3 7	189	13 0 21	223	15 2 6
156	10 3 15	190	13 1 1	224	15 2 14
157	10 3 23	191	13 1 8	225	15 2 22
158	11 0 2	192	13 1 16	226	15 3 2
159	11 0 10	193	13 1 24	227	15 3 10
160	11 0 18	194	13 2 4	228	15 3 17
161	11 0 26	195	13 2 12	229	15 3 25
162	11 1 6	196	13 2 19	230	16 0 5
163	11 1 14	197	13 2 27	231	16 0 13
164	11 1 21	198	13 3 7	232	16 0 21
165	11 2 1	199	13 3 15	233	16 1 1
166	11 2 9	200	13 3 23	234	16 1 8
167	11 2 17	201	14 0 2	235	16 1 16
168	11 2 25	202	14 0 10	236	16 1 24
169	11 3 4	203	14 0 18	237	16 2 4
170	11 3 12	204	14 0 26	238	16 2 12
171	11 3 20	205	14 1 6	239	16 2 19
172	12 0 0	206	14 1 14	240	16 2 27
173	12 0 8	207	14 1 21	241	16 3 7
174	12 0 16	208	14 2 1	242	16 3 15
175	12 0 23	209	14 2 9	243	16 3 23
176	12 1 3	210	14 2 17	244	17 0 2
177	12 1 11	211	14 2 25	245	17 0 10
178	12 1 19	212	14 3 4	246	17 0 18
179	12 1 27	213	14 3 12	247	17 0 26
180	12 2 6	214	14 3 20	248	17 1 6
181	12 2 14	215	15 0 0	249	17 1 14
182	12 2 22	216	15 0 8	250	17 1 21
183	12 3 2	217	15 0 15	251	17 2 1
184	12 3 10	218	15 0 23	252	17 2 9
185	12 3 17	219	15 1 3		

1. in 8. (U. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 1 26	84	5 3 11	118	8 0 24
51	3 2 6	85	5 3 19	119	8 1 4
52	3 2 14	86	5 3 27	120	8 1 12
53	3 2 21	87	6 0 7	121	8 1 20
54	3 3 1	88	6 0 14	122	8 2 0
55	3 3 9	89	6 0 22	123	8 2 7
56	3 3 17	90	6 1 2	124	8 2 15
57	3 3 25	91	6 1 10	125	8 2 23
58	4 0 4	92	6 1 18	126	8 3 3
59	4 0 12	93	6 1 25	127	8 3 11
60	4 0 20	94	6 2 5	128	8 3 18
61	4 1 0	95	6 2 13	129	8 3 26
62	4 1 8	96	6 2 21	130	9 0 6
63	4 1 15	97	6 3 1	131	9 0 14
64	4 1 23	98	6 3 8	132	9 0 22
65	4 2 3	99	6 3 16	133	9 1 1
66	4 2 11	100	6 3 24	134	9 1 9
67	4 2 19	101	7 0 4	135	9 1 17
68	4 2 26	102	7 0 12	136	9 1 25
69	4 3 6	103	7 0 19	137	9 2 5
70	4 3 14	104	7 0 27	138	9 2 12
71	4 3 22	105	7 1 7	139	9 2 20
72	5 0 2	106	7 1 15	140	9 3 0
73	5 0 9	107	7 1 23	141	9 3 8
74	5 0 17	108	7 2 2	142	9 3 16
75	5 0 25	109	7 2 10	143	9 3 23
76	5 1 5	110	7 2 18	144	10 0 3
77	5 1 23	111	7 2 26	145	10 0 11
78	5 1 20	112	7 3 6	146	10 0 19
79	5 2 0	113	7 3 13	147	10 0 27
80	5 2 8	114	7 3 21	148	10 1 6
81	5 2 16	115	8 0 1	149	10 1 14
82	5 2 24	116	8 0 9	150	10 1 22
83	5 3 3	117	8 0 17	151	10 2 2

1. in 8. (U. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
152	10 2 10	186	12 3 23	220	15 1 8
153	10 2 17	187	13 0 3	221	15 1 16
154	10 2 25	188	13 0 11	222	15 1 24
155	10 3 5	189	13 0 18	223	15 2 3
156	10 3 13	190	13 0 26	224	15 2 11
157	10 3 21	191	13 1 6	225	15 2 19
158	11 0 0	192	13 1 14	226	15 2 27
159	11 0 8	193	13 1 21	227	15 3 7
160	11 0 16	194	13 2 1	228	15 3 14
161	11 0 24	195	13 2 9	229	15 3 22
162	11 1 4	196	13 2 17	230	16 0 2
163	11 1 11	197	13 2 25	231	16 0 10
164	11 1 19	198	13 3 4	232	16 0 18
165	11 1 27	199	13 3 12	233	16 0 25
166	11 2 7	200	13 3 20	234	16 1 5
167	11 2 15	201	14 0 0	235	16 1 13
168	11 2 22	202	14 0 8	236	16 1 21
169	11 3 2	203	14 0 15	237	16 2 1
170	11 3 10	204	14 0 23	238	16 2 8
171	11 3 18	205	14 1 3	239	16 2 16
172	11 3 26	206	14 1 11	240	16 2 24
173	12 0 5	207	14 1 19	241	16 3 4
174	12 0 13	208	14 1 26	242	16 3 12
175	12 0 21	209	14 2 6	243	16 3 19
176	12 1 1	210	14 2 14	244	16 3 27
177	12 1 8	211	14 2 22	245	17 0 7
178	12 1 16	212	14 3 2	246	17 0 15
179	12 1 24	213	14 3 10	247	17 0 23
180	12 2 4	214	14 3 17	248	17 1 2
181	12 2 12	215	14 3 25	249	17 1 10
182	12 2 20	216	15 0 5	250	17 1 18
183	12 2 27	217	15 0 13	251	17 1 26
184	12 3 7	218	15 0 20	252	17 2 6
185	12 3 15	219	15 1 0		

1. in 9. (U. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 1 25	84	5 3 10	118	8 0 23
51	3 2 5	85	5 3 18	119	8 1 3
52	3 2 13	86	5 3 26	120	8 1 11
53	3 2 21	87	6 0 6	121	8 1 19
54	3 3 1	88	6 0 13	122	8 1 26
55	3 3 8	89	6 0 21	123	8 2 6
56	3 3 16	90	6 1 1	124	8 2 14
57	3 3 24	91	6 1 9	125	8 2 22
58	4 0 4	92	6 1 17	126	8 3 1
59	4 0 12	93	6 1 24	127	8 3 9
60	4 0 19	94	6 2 4	128	8 3 17
61	4 0 27	95	6 2 12	129	9 0 25
62	4 1 7	96	6 2 20	130	9 0 5
63	4 1 15	97	6 3 0	131	9 0 12
64	4 1 22	98	6 3 7	132	9 0 20
65	4 2 2	99	6 3 15	133	9 1 0
66	4 2 10	100	6 3 23	134	9 1 8
67	4 2 18	101	7 0 3	135	9 1 16
68	4 2 26	102	7 0 11	136	9 1 23
69	4 3 5	103	7 0 18	137	9 2 3
70	4 3 13	104	7 0 26	138	9 2 11
71	4 3 21	105	7 1 6	139	9 2 19
72	5 0 1	106	7 1 14	140	9 2 27
73	5 0 9	107	7 1 21	141	9 3 6
74	5 0 16	108	7 2 1	142	9 3 14
75	5 0 24	109	7 2 9	143	9 3 22
76	5 1 4	110	7 2 17	144	10 0 2
77	5 1 12	111	7 2 25	145	10 0 9
78	5 1 20	112	7 3 4	146	10 0 17
79	5 1 27	113	7 3 12	147	10 0 25
80	5 2 7	114	7 3 20	148	10 1 5
81	5 2 15	115	8 0 0	149	10 1 13
82	5 2 23	116	8 0 8	150	10 1 20
83	5 3 3	117	8 0 15	151	10 2 0

1. in 9. (U. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
152	10 2 8	186	12 3 21	220	15 1 6
153	10 2 16	187	13 0 1	221	15 1 14
154	10 2 24	188	13 0 8	222	15 1 21
155	10 3 3	189	13 0 16	223	15 2 1
156	10 3 11	190	13 0 24	224	15 2 9
157	10 3 19	191	13 1 4	225	15 2 17
158	10 3 27	192	13 1 12	226	15 2 24
159	11 0 7	193	13 1 19	227	15 3 4
160	11 0 14	194	13 1 27	228	15 3 12
161	11 0 22	195	13 2 7	229	15 3 20
162	11 1 2	196	13 2 15	230	16 0 0
163	11 1 10	197	13 2 23	231	16 0 7
164	11 1 17	198	13 3 2	232	16 0 15
165	11 1 25	199	13 3 10	233	16 0 23
166	11 2 5	200	14 3 18	234	16 1 3
167	11 2 13	201	13 3 26	235	16 1 11
168	11 2 21	202	14 0 6	236	16 1 18
169	11 3 0	203	14 0 13	237	16 1 26
170	11 3 8	204	14 0 21	238	16 2 6
171	11 3 16	205	14 1 1	239	16 2 14
172	11 3 24	206	14 1 9	240	16 2 21
173	12 0 4	207	14 1 16	241	16 3 1
174	12 0 11	208	14 1 24	242	16 3 9
175	12 0 19	209	14 2 4	243	16 3 17
176	12 0 27	210	14 2 12	244	16 3 25
177	12 1 6	211	14 2 20	245	17 0 4
178	12 1 15	212	14 2 27	246	17 0 12
179	12 1 22	213	14 3 7	247	17 0 20
180	12 2 2	214	14 3 15	248	17 1 0
181	12 2 10	215	14 3 23	249	17 1 8
182	12 2 18	216	15 0 3	250	17 1 15
183	12 2 25	217	15 0 10	251	17 1 23
184	12 3 5	218	15 0 18	252	17 2 3
185	12 3 13	219	15 0 26		

1. in 10. (U. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 1 25	84	5 3 10	118	8 0 22
51	3 2 5	85	5 3 17	119	8 1 2
52	3 2 13	86	5 3 25	120	8 1 10
53	3 2 20	87	6 0 5	121	8 1 18
54	3 3 0	88	6 0 13	122	8 1 25
55	3 3 8	89	6 0 21	123	8 2 5
56	3 3 16	90	6 1 0	124	8 2 13
57	3 3 23	91	6 1 8	125	8 2 21
58	4 0 3	92	6 1 16	126	8 3 0
59	4 0 11	93	6 1 24	127	8 3 8
60	4 0 19	94	6 2 3	128	8 3 16
61	4 0 27	95	6 2 11	129	8 3 24
62	4 1 6	96	6 2 19	130	9 0 4
63	4 1 14	97	6 2 27	131	9 0 11
64	4 1 22	98	6 3 7	132	9 0 19
65	4 2 2	99	6 3 14	133	9 0 27
66	4 2 10	100	6 3 22	134	9 1 7
67	4 2 17	101	7 0 2	135	9 1 14
68	4 2 25	102	7 0 10	136	9 1 22
69	4 3 5	103	7 0 17	137	9 2 2
70	4 3 13	104	7 0 25	138	9 2 10
71	4 3 20	105	7 1 5	139	9 2 18
72	5 0 0	106	7 1 13	140	9 2 25
73	5 0 8	107	7 1 21	141	9 3 5
74	5 0 16	108	7 2 0	142	9 3 13
75	5 0 24	109	7 2 8	143	9 3 21
76	5 1 3	110	7 2 16	144	10 0 0
77	5 1 11	111	7 2 24	145	10 0 8
78	5 1 19	112	7 3 3	146	10 0 16
79	5 1 27	113	7 3 11	147	10 0 24
80	5 2 6	114	7 3 19	148	10 1 4
81	5 2 14	115	7 3 27	149	10 1 11
82	5 2 22	116	8 0 7	150	10 1 19
83	5 3 2	117	8 0 14	151	10 1 27

1. in 10. (U.P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
152	10 2 7	186	12 3 19	220	15 1 4
153	10 2 15	187	12 3 27	221	15 1 12
154	10 2 22	188	13 0 7	222	15 1 19
155	10 3 2	189	13 0 15	223	15 1 27
156	10 3 10	190	13 0 22	224	15 2 7
157	10 3 18	191	13 1 2	225	15 2 15
158	10 3 25	192	13 1 10	226	15 2 23
159	11 0 5	193	13 1 18	227	15 3 2
160	11 0 13	194	13 1 26	228	15 3 10
161	11 0 21	195	13 2 5	229	15 3 18
162	11 1 1	196	13 2 13	230	15 3 26
163	11 1 8	197	13 2 21	231	16 0 5
164	11 1 16	198	13 3 1	232	16 0 13
165	11 1 24	199	13 3 8	233	16 0 21
166	11 2 4	200	13 3 16	234	16 1 1
167	11 2 11	201	13 3 24	235	16 1 9
168	11 2 19	202	14 0 4	236	16 1 16
169	11 2 27	203	14 0 12	237	16 1 24
170	11 3 7	204	14 0 19	238	16 2 4
171	11 3 15	205	14 0 27	239	16 2 12
172	11 3 22	206	14 1 7	240	16 2 20
173	12 0 2	207	14 1 15	241	16 2 27
174	12 0 10	208	14 1 23	242	16 3 7
175	12 0 18	209	14 2 2	243	16 3 15
176	12 0 26	210	14 2 10	244	16 3 23
177	12 1 5	211	14 2 18	245	17 0 2
178	12 1 13	212	14 2 26	246	17 0 10
179	12 1 21	213	14 3 5	247	17 0 18
180	12 2 1	214	14 3 13	248	17 0 26
181	12 2 8	215	15 3 21	249	17 1 6
182	12 2 16	216	15 0 1	250	17 1 13
183	12 2 24	217	15 0 9	251	17 1 21
184	12 3 4	218	15 0 16	252	17 2 1
185	12 3 12	219	15 0 24		

1. in 15. (U. P.)

Gal	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 1 24	84	5 3 8	118	8 0 19
51	3 2 4	85	5 3 15	119	8 0 27
52	3 2 11	86	5 3 23	120	8 1 7
53	3 2 19	87	6 0 3	121	8 1 15
54	3 2 27	88	6 0 11	122	8 1 22
55	3 3 7	89	6 0 18	123	8 2 2
56	3 3 14	90	6 0 26	124	8 2 10
57	3 3 22	91	6 1 6	125	8 2 18
58	4 0 2	92	6 1 14	126	8 2 25
59	4 0 10	93	6 1 21	127	8 3 5
60	4 0 17	94	6 2 1	128	8 3 13
61	4 0 25	95	6 2 9	129	9 3 21
62	4 1 5	96	6 2 17	130	9 0 0
63	4 1 13	97	6 2 24	131	9 0 8
64	4 1 20	98	6 3 4	132	9 0 16
65	4 2 0	99	6 3 12	133	9 0 24
66	4 2 8	100	6 3 20	134	9 1 3
67	4 2 16	101	6 3 27	135	9 1 11
68	4 2 23	102	7 0 7	136	9 1 19
69	4 3 3	103	7 0 15	137	9 1 27
70	4 3 11	104	7 0 23	138	9 2 6
71	4 3 19	105	7 1 2	139	9 2 14
72	4 3 26	106	7 1 10	140	9 2 22
73	5 0 6	107	7 1 18	141	9 3 2
74	5 0 14	108	7 1 26	142	9 3 9
75	5 0 22	109	7 2 5	143	9 3 17
76	5 1 1	110	7 2 13	144	9 3 25
77	5 1 9	111	7 2 21	145	10 0 5
78	5 1 17	112	7 3 1	146	10 0 12
79	5 1 25	113	7 3 8	147	10 0 20
80	5 2 4	114	7 3 16	148	10 1 0
81	5 2 12	115	7 3 24	149	10 1 8
82	5 2 20	116	8 0 4	150	10 1 15
83	5 3 0	117	8 0 11	151	10 1 23

1. in 15. "(U. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
152	10 2 3	186	12 3 15	220	15 0 26
153	10 2 11	187	12 3 22	221	15 1 6
154	10 2 18	188	13 0 2	222	15 1 14
155	10 2 26	189	13 0 10	223	15 1 22
156	10 3 6	190	13 0 18	224	15 2 1
157	10 3 14	191	13 0 25	225	15 2 9
158	10 3 22	192	13 1 5	226	15 2 17
159	11 0 1	193	13 1 13	227	15 2 25
160	11 0 9	194	13 1 21	228	15 3 4
161	11 0 17	195	13 2 1	229	15 3 12
162	11 0 25	196	13 2 8	230	15 3 20
163	11 1 4	197	13 2 16	231	16 0 0
164	11 1 12	198	13 2 24	232	16 0 8
165	11 1 20	199	13 3 4	233	16 0 15
166	11 2 0	200	13 3 11	234	16 0 23
167	11 2 7	201	13 3 19	235	16 1 3
168	11 2 15	202	13 3 27	236	16 1 11
169	11 2 23	203	14 0 7	237	16 1 18
170	11 3 3	204	14 0 14	238	16 1 26
171	11 3 10	205	14 0 22	239	16 2 6
172	11 3 18	206	14 1 2	240	16 2 14
173	11 3 26	207	14 1 10	241	16 2 21
174	12 0 6	208	14 1 17	242	16 3 1
175	12 0 13	209	14 1 25	243	16 3 9
176	12 0 21	210	14 2 5	244	16 3 17
177	12 1 1	211	14 2 13	245	16 3 24
178	12 1 9	212	14 2 20	246	17 0 4
179	12 1 16	213	14 3 0	247	17 0 12
180	12 1 24	214	14 3 8	248	17 0 20
181	12 2 4	215	14 3 16	249	17 0 27
182	12 2 12	216	14 3 23	250	17 1 7
183	12 2 19	217	15 0 3	251	17 1 15
184	12 2 27	218	15 0 11	252	17 1 23
185	12 3 7	219	15 0 19		

1. in 20. (U. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 1 23	84	5 3 6	118	8 0 18
51	3 2 3	85	5 3 14	119	8 0 26
52	3 2 11	86	5 3 22	120	8 1 5
53	3 2 18	87	6 0 2	121	8 1 13
54	3 2 26	88	6 0 9	122	8 1 21
55	3 3 6	89	6 0 17	123	8 2 0
56	3 3 14	90	6 0 25	124	8 2 8
57	3 3 21	91	6 1 5	125	8 2 16
58	4 0 1	92	6 1 12	126	8 2 24
59	4 0 9	93	6 1 20	127	8 3 3
60	4 0 17	94	6 2 0	128	8 3 11
61	4 0 24	95	6 2 8	129	8 3 19
62	4 1 4	96	6 2 15	130	8 3 27
63	4 1 12	97	6 2 23	131	9 0 6
64	4 1 20	98	6 3 3	132	9 0 14
65	4 1 27	99	6 3 11	133	9 0 22
66	4 2 7	100	6 3 18	134	9 1 2
67	4 2 15	101	6 3 26	135	9 1 9
68	4 2 22	102	7 0 6	136	9 1 17
69	4 3 2	103	7 0 14	137	9 1 25
70	4 3 10	104	7 0 21	138	9 2 5
71	4 3 18	105	7 1 1	139	9 2 12
72	4 3 26	106	7 1 9	140	9 2 20
73	5 0 5	107	7 1 17	141	9 3 0
74	5 0 13	108	7 1 24	142	9 3 8
75	5 0 21	109	7 2 4	143	9 3 15
76	5 1 1	110	7 2 12	144	9 3 23
77	5 1 8	111	7 2 19	145	10 0 3
78	5 1 16	112	7 2 27	146	10 0 11
79	5 1 24	113	7 3 7	147	10 0 18
80	5 2 3	114	7 3 15	148	10 0 26
81	5 2 11	115	7 3 23	149	10 1 6
82	5 2 19	116	8 0 2	150	10 1 14
83	5 2 27	117	8 0 10	151	10 1 21

1. in 20. (U. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
152	10 2 1	186	12 3 12	220	15 0 24
153	10 2 9	187	12 3 20	221	15 1 3
154	10 2 17	188	13 0 0	222	15 1 11
155	10 2 24	189	13 0 8	223	15 1 19
156	10 3 4	190	13 0 15	224	15 1 27
157	10 3 12	191	13 0 23	225	15 2 6
158	10 3 20	192	13 1 3	226	15 2 14
159	10 3 27	193	13 1 11	227	15 2 22
160	11 0 7	194	13 1 18	228	15 3 2
161	11 0 15	195	13 1 26	229	15 3 9
162	11 0 23	196	13 2 6	230	15 3 17
163	11 1 2	197	13 2 14	231	15 3 25
164	11 1 10	198	13 2 21	232	16 0 5
165	11 1 18	199	13 3 1	233	16 0 12
166	11 1 25	200	13 3 9	234	16 0 20
167	11 2 5	201	13 3 17	235	16 1 0
168	11 2 13	202	13 3 24	236	16 1 8
169	11 2 21	203	14 0 4	237	16 1 15
170	11 3 0	204	14 0 12	238	16 1 23
171	11 3 8	205	14 0 20	239	16 2 3
172	11 3 16	206	14 0 27	240	16 2 11
173	11 3 24	207	14 1 7	241	16 2 18
174	12 0 3	208	14 1 15	242	16 2 26
175	12 0 11	209	14 1 23	243	16 3 6
176	12 0 19	210	14 2 2	244	16 3 14
177	12 0 27	211	14 2 10	245	16 3 21
178	12 1 6	212	14 2 18	246	17 0 1
179	12 1 14	213	14 2 25	247	17 0 9
180	12 1 22	214	14 3 5	248	17 0 17
181	12 2 2	215	14 3 13	249	17 0 24
182	12 2 9	216	14 3 21	250	17 1 4
183	12 2 17	217	15 0 0	251	17 1 12
184	12 2 25	218	15 0 8	252	17 1 20
185	12 3 5	219	15 0 16		

Hydrometer Proof.

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 1 21	84	5 3 3	118	8 0 13
51	3 2 1	85	5 3 11	119	8 0 21
52	3 2 9	86	5 3 19	120	8 1 1
53	3 2 16	87	5 3 26	121	8 1 8
54	3 2 24	88	6 0 6	122	8 1 16
55	3 3 4	89	6 0 14	123	8 1 24
56	3 3 12	90	6 0 22	124	8 2 4
57	3 3 19	91	6 1 1	125	8 2 11
58	3 3 27	92	6 1 9	126	8 2 19
59	4 0 7	93	6 1 17	127	8 2 27
60	4 0 14	94	6 1 24	128	8 3 6
61	4 0 22	95	6 2 4	129	8 3 14
62	4 1 2	96	6 2 12	130	8 3 22
63	4 1 9	97	6 2 20	131	9 0 2
64	4 1 17	98	6 2 27	132	9 0 9
65	4 1 25	99	6 3 7	133	9 0 17
66	4 2 5	100	6 3 15	134	9 0 25
67	4 2 12	101	6 3 22	135	9 1 4
68	4 2 20	102	7 0 2	136	9 1 12
69	4 3 0	103	7 0 10	137	9 1 20
70	4 3 7	104	7 0 17	138	9 2 0
71	4 3 15	105	7 0 25	139	9 2 7
72	4 3 23	106	7 1 5	140	9 2 15
73	5 0 3	107	7 1 13	141	9 2 23
74	5 0 10	108	7 1 20	142	9 3 2
75	5 0 18	109	7 2 0	143	9 3 10
76	5 0 26	110	7 2 8	144	9 3 18
77	5 1 5	111	7 2 15	145	9 3 25
78	5 1 13	112	7 2 23	146	10 0 5
79	5 1 21	113	7 3 3	147	10 0 13
80	5 2 1	114	7 3 11	148	10 0 21
81	5 2 8	115	7 3 18	149	10 1 0
82	5 2 16	116	7 3 26	150	10 1 8
83	5 2 24	117	8 0 6	151	10 1 16

Hydrometer Proof.

Gal.	C.	Q.	lb.	Gal.	C.	Q.	lb.	Gal.	C.	Q.	lb.
152	10	1	23	186	12	3	5	220	15	0	15
153	10	2	3	187	12	3	13	221	15	0	23
154	10	2	11	188	12	3	21	222	15	1	3
155	10	2	19	189	13	0	1	223	15	1	11
156	10	2	26	190	13	0	8	224	15	1	18
157	10	3	6	191	13	0	16	225	15	1	26
158	10	3	14	192	13	0	24	226	15	2	6
159	10	3	21	193	13	1	3	227	15	2	13
160	11	0	1	194	13	1	11	228	15	2	21
161	11	0	9	195	13	1	19	229	15	3	1
162	11	0	16	196	13	1	27	230	15	3	9
163	11	0	24	197	13	2	6	231	15	3	16
164	11	1	4	198	13	2	14	232	15	3	24
165	11	1	12	199	13	2	22	233	16	0	4
166	11	1	19	200	13	3	1	234	16	0	11
167	11	1	27	201	13	3	9	235	16	0	19
168	11	2	7	202	13	3	17	236	16	0	27
169	11	2	14	203	13	3	24	237	16	1	7
170	11	2	22	204	14	0	4	238	16	1	14
171	11	3	2	205	14	0	12	239	16	1	22
172	11	3	10	206	14	0	20	240	16	2	2
173	11	3	17	207	14	0	27	241	16	2	9
174	11	3	25	208	14	1	7	242	16	2	17
175	12	0	5	209	14	1	15	243	16	2	25
176	12	0	12	210	14	1	22	244	16	3	4
177	12	0	20	211	14	2	2	245	16	3	12
178	12	1	0	212	14	2	10	246	16	3	20
179	12	1	7	213	14	2	18	247	17	0	0
180	12	1	15	214	14	2	25	248	17	0	7
181	12	1	23	215	14	3	5	249	17	0	15
182	12	2	3	216	14	3	13	250	17	0	23
183	12	2	10	217	14	3	20	251	17	1	2
184	12	2	18	218	15	0	0	252	17	1	10
185	12	2	26	219	15	0	8				

1. to 20. (O.P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50.	3 1 19	84	5 3 0	118.	8 0 9
51	3 1 27	85	5 3 8	119.	8 0 17
52	3 2 7	86	5 3 16	120.	8 0 24
53	3 2 14	87	5 3 23	121	8 1 4
54	3 2 22	88	6 0 3	122	8 1 12
55	3 3 2	89	6 0 11	123.	8 1 19
56	3 3 9	90	6 0 18	124	8 1 27
57	3 3 17	91	6 0 26	125	8 2 7
58	3 3 25	92	6 1 6	126	8 2 14
59	4 0 4	93	6 1 13	127	8 2 22
60	4 0 12	94	6 1 21	128	8 3 2
61	4 0 20	95	6 2 1	129	8 3 9
62	4 0 27	96	6 2 8	130	8 3 17
63	4 1 7	97	6 2 16	131	8 3 25
64	4 1 15	98	6 2 24	132	9 0 4
65	4 1 22	99	6 3 3	133	9 0 12
66	4 2 2	100	6 3 11	134	9 0 20
67	4 2 10	101	6 3 19	135	9 0 27
68	4 2 17	102	6 3 26	136	9 1 7
69	4 2 25	103	7 0 6	137	9 1 15
70	4 3 5	104	7 0 14	138	9 1 22
71	4 3 12	105	7 0 21	139	9 2 2
72	4 3 20	106	7 1 1	140	9 2 10
73	5 0 0	107	7 1 9	141	9 2 17
74	5 0 7	108	7 1 16	142	9 2 25
75	5 0 15	109	7 1 24	143	9 3 5
76	5 0 23	110	7 2 4	144	9 3 12
77	5 1 3	111	7 2 11	145	9 3 20
78	5 1 10	112	7 2 19	146	10 0 0
79	5 1 18	113	7 2 27	147	10 0 7
80	5 1 26	114	7 3 6	148	10 0 15
81	5 2 5	115	7 3 14	149	10 0 22
82	5 2 13	116	7 3 22	150	10 1 2
83	5 2 21	117	8 0 1	151	10 1 10

1. to 20. (O. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
152	10 1 18	186	12 2 27	220	15 0 7
153	10 1 25	187	12 3 6	221	15 0 15
154	10 2 5	188	12 3 14	222	15 0 23
155	10 2 13	189	12 3 22	223	15 1 2
156	10 2 20	190	13 0 1	224	15 1 10
157	10 3 0	191	13 0 9	225	15 1 18
158	10 3 8	192	13 0 17	226	15 1 25
159	10 3 15	193	13 0 24	227	15 2 5
160	10 3 23	194	13 1 4	228	15 2 13
161	11 0 3	195	13 1 12	229	15 2 20
162	11 0 10	196	13 1 19	230	15 3 0
163	11 0 18	197	13 1 27	231	15 3 8
164	11 0 26	198	13 2 7	232	15 3 15
165	11 1 5	199	13 2 14	233	15 3 23
166	11 1 13	200	13 2 22	234	16 0 3
167	11 1 21	201	13 3 2	235	16 0 10
168	11 2 0	202	13 3 9	236	16 0 18
169	11 2 8	203	13 3 17	237	16 0 26
170	11 2 16	204	13 3 25	238	16 1 5
171	11 2 23	205	14 0 4	239	16 1 13
172	11 3 3	206	14 0 12	240	16 1 21
173	11 3 11	207	14 0 20	241	16 2 0
174	11 3 18	208	14 0 27	242	16 2 8
175	11 3 26	209	14 1 7	243	16 2 16
176	12 0 6	210	14 1 15	244	16 2 23
177	12 0 13	211	14 1 22	245	16 3 3
178	12 0 21	212	14 2 2	246	16 3 11
179	12 1 1	213	14 2 10	247	16 3 18
180	12 1 8	214	14 2 17	248	16 3 26
181	12 1 16	215	14 2 25	249	17 0 6
182	12 1 24	216	14 3 5	250	17 0 13
183	12 2 3	217	14 3 12	251	17 0 21
184	12 2 11	218	14 3 20	252	17 1 1
185	12 2 19	219	15 0 0		

1. to 15. (O. P.)

Gal	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 1 19	84	5 2 27	118	8 0 7
51	3 1 26	85	5 3 7	119	8 0 15
52	3 2 6	86	5 3 14	120	8 0 23
53	3 2 14	87	5 3 22	121	8 1 2
54	3 2 21	88	6 0 2	122	8 1 10
55	3 3 1	89	6 0 9	123	8 1 18
56	3 3 9	90	6 0 17	124	8 1 25
57	3 3 16	91	6 0 25	125	8 2 5
58	3 3 24	92	6 1 4	126	8 2 13
59	4 0 4	93	6 1 12	127	8 2 20
60	4 0 11	94	6 1 20	128	8 3 0
61	4 0 19	95	6 1 27	129	8 3 8
62	4 0 27	96	6 2 7	130	8 3 15
63	4 1 6	97	6 2 15	131	8 3 23
64	4 1 14	98	6 2 22	132	9 0 3
65	4 1 22	99	6 3 2	133	9 0 10
66	4 2 1	100	6 3 10	134	9 0 18
67	4 2 9	101	6 3 17	135	9 0 26
68	4 2 17	102	6 3 25	136	9 1 5
69	4 2 24	103	7 0 5	137	9 1 13
70	4 3 4	104	7 0 12	138	9 1 21
71	4 3 12	105	7 0 20	139	9 2 0
72	4 3 19	106	7 1 0	140	9 2 8
73	4 3 27	107	7 1 7	141	9 2 16
74	5 0 7	108	7 1 15	142	9 2 23
75	5 0 14	109	7 1 23	143	9 3 3
76	5 0 22	110	7 2 2	144	9 3 11
77	5 1 2	111	7 2 10	145	9 3 18
78	5 1 9	112	7 2 18	146	10 3 26
79	5 1 17	113	7 2 25	147	10 0 6
80	5 1 25	114	7 3 5	148	10 0 13
81	5 2 4	115	7 3 13	149	10 0 21
82	5 2 12	116	7 3 20	150	10 1 1
83	5 2 19	117	8 0 0	151	10 1 8

1. to 15. (O. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
152	10 1 16	186	12 2 24	220	15 0 5
153	10 1 24	187	12 3 4	221	15 0 12
154	10 2 3	188	12 3 12	222	15 0 20
155	10 2 11	189	12 3 19	223	15 1 0
156	10 2 18	190	12 3 27	224	15 1 7
157	10 2 26	191	13 0 6	225	15 1 15
158	10 3 6	192	13 0 14	226	15 1 22
159	10 3 13	193	13 0 22	227	15 2 2
160	10 3 21	194	13 1 1	228	15 2 10
161	11 0 1	195	13 1 9	229	15 2 17
162	11 0 8	196	13 1 17	230	15 2 25
163	11 0 16	197	13 1 24	231	15 3 5
164	11 0 24	198	13 2 4	232	15 3 12
165	11 1 3	199	13 2 12	233	15 3 20
166	11 1 11	200	13 2 19	234	16 0 0
167	11 1 19	201	13 2 27	235	16 0 7
168	11 1 26	202	13 3 7	236	16 0 15
169	11 2 6	203	13 3 14	237	16 0 23
170	11 2 14	204	13 3 22	238	16 1 2
171	11 2 21	205	14 0 2	239	16 1 10
172	11 3 1	206	14 0 9	240	16 1 18
173	11 3 9	207	14 0 17	241	16 1 25
174	11 3 16	208	14 0 25	242	16 2 5
175	11 3 24	209	14 1 4	243	16 2 13
176	12 0 4	210	14 1 12	244	16 2 20
177	12 0 11	211	14 1 20	245	16 3 0
178	12 0 19	212	14 1 27	246	16 3 8
179	12 0 27	213	14 2 7	247	16 3 15
180	12 1 6	214	14 2 15	248	16 3 23
181	12 1 14	215	14 2 22	249	17 0 3
182	12 1 22	216	14 3 2	250	17 0 10
183	12 2 1	217	14 3 10	251	17 0 18
184	12 2 9	218	14 3 17	252	17 0 26
185	12 2 17	219	14 3 25		

1. to 10. (C. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 1 18	84	5 2 25	118	8 0 5
51	3 1 25	85	5 3 5	119	8 0 12
52	3 2 5	86	5 3 12	120	8 0 20
53	3 2 12	87	5 3 20	121	8 0 27
54	3 2 20	88	6 0 0	122	8 1 7
55	3 3 0	89	6 0 7	123	8 1 15
56	3 3 7	90	6 0 15	124	8 1 22
57	3 3 15	91	6 0 22	125	8 2 2
58	3 3 23	92	6 1 2	126	8 2 10
59	4 0 2	93	6 1 10	127	8 2 17
60	4 0 10	94	6 1 17	128	8 2 25
61	4 0 18	95	6 1 25	129	8 3 5
62	4 0 25	96	6 2 5	130	8 3 12
63	4 1 5	97	6 2 12	131	8 3 20
64	4 1 12	98	6 2 20	132	8 3 27
65	4 1 20	99	6 3 0	133	9 0 7
66	4 2 0	100	6 3 7	134	9 0 15
67	4 2 7	101	6 3 15	135	9 0 22
68	4 2 15	102	6 3 22	136	9 1 2
69	4 2 23	103	7 0 2	137	9 1 10
70	4 3 2	104	7 0 10	138	9 1 17
71	4 3 10	105	7 0 17	139	9 1 25
72	4 3 17	106	7 0 25	140	9 2 4
73	4 3 25	107	7 1 5	141	9 2 12
74	5 0 5	108	7 1 12	142	9 2 20
75	5 0 12	109	7 1 20	143	9 2 27
76	5 0 20	110	7 2 0	144	9 3 7
77	5 1 0	111	7 2 7	145	9 3 15
78	5 1 7	112	7 2 15	146	9 3 22
79	5 1 15	113	7 2 22	147	10 0 2
80	5 1 23	114	7 3 2	148	10 0 10
81	5 2 2	115	7 3 10	149	10 0 17
82	5 2 10	116	7 3 17	150	10 0 25
83	5 2 17	117	7 3 25	151	10 1 4

1. to 10. (O. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
152	10 1 12	186	12 2 20	220	14 3 27
153	10 1 20	187	12 2 27	221	15 0 7
154	10 1 27	188	12 3 7	222	15 0 14
155	10 2 7	189	12 3 14	223	15 0 22
156	10 2 15	190	12 3 22	224	15 1 2
157	10 2 22	191	13 0 2	225	15 1 9
158	10 3 2	192	13 0 9	226	15 1 17
159	10 3 9	193	13 0 17	227	15 1 24
160	10 3 17	194	13 0 25	228	15 2 4
161	10 3 25	195	13 1 4	229	15 2 12
162	11 0 4	196	13 1 12	230	15 2 19
163	11 0 12	197	13 1 20	231	15 2 27
164	11 0 20	198	13 1 27	232	15 3 7
165	11 0 27	199	13 2 7	233	15 3 14
166	11 1 7	200	13 2 14	234	15 3 22
167	11 1 15	201	13 2 22	235	16 0 2
168	11 1 22	202	13 3 2	236	16 0 9
169	11 2 2	203	13 3 9	237	16 0 17
170	11 2 9	204	13 3 17	238	16 0 24
171	11 2 17	205	13 3 25	239	16 1 4
172	11 2 25	206	14 0 4	240	16 1 12
173	11 3 4	207	14 0 12	241	16 1 19
174	11 3 12	208	14 0 19	242	16 1 27
175	11 3 20	209	14 0 27	243	16 2 7
176	11 3 27	210	14 1 7	244	16 2 14
177	12 0 7	211	14 1 14	245	16 2 22
178	12 0 15	212	14 1 22	246	16 3 2
179	12 0 22	213	14 2 2	247	16 3 9
180	12 1 2	214	14 2 9	248	16 3 17
181	12 1 9	215	14 2 17	249	16 3 24
182	12 1 17	216	14 2 25	250	17 0 4
183	12 1 25	217	14 3 4	251	17 0 12
184	12 2 4	218	14 3 12	252	17 0 19
185	12 2 12	219	14 3 19		

1. to 9. (O. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 1 17	84	5 2 24	118	8 0 4
51	3 1 25	85	5 3 4	119	8 0 11
52	3 2 4	86	5 3 12	120	8 0 19
53	3 2 12	87	5 3 19	121	8 0 26
54	3 2 20	88	5 3 27	122	8 1 6
55	3 2 27	89	6 0 6	123	8 1 14
56	3 3 7	90	6 0 14	124	8 1 21
57	3 3 15	91	6 0 22	125	8 2 1
58	3 3 22	92	6 1 1	126	8 2 9
59	4 0 2	93	6 1 9	127	8 2 16
60	4 0 9	94	6 1 17	128	8 2 24
61	4 0 17	95	6 1 24	129	8 3 3
62	4 0 25	96	6 2 4	130	8 3 11
63	4 1 4	97	6 2 11	131	8 3 19
64	4 1 12	98	6 2 19	132	8 3 26
65	4 1 20	99	6 2 27	133	9 0 6
66	4 1 27	100	6 3 6	134	9 0 14
67	4 2 7	101	6 3 14	135	9 0 21
68	4 2 14	102	6 3 22	136	9 1 1
69	4 2 22	103	7 0 1	137	9 1 8
70	4 3 2	104	7 0 9	138	9 1 16
71	4 3 9	105	7 0 16	139	9 1 24
72	4 3 17	106	7 0 24	140	9 2 3
73	4 3 24	107	7 1 4	141	9 2 11
74	5 0 4	108	7 1 11	142	9 2 19
75	5 0 12	109	7 1 19	143	9 2 26
76	5 0 19	110	7 1 27	144	9 3 6
77	5 0 27	111	7 2 6	145	9 3 13
78	5 1 7	112	7 2 14	146	9 3 21
79	5 1 14	113	7 2 21	147	10 0 1
80	5 1 22	114	7 3 1	148	10 0 8
81	5 2 1	115	7 3 9	149	10 0 16
82	5 2 9	116	7 3 16	150	10 0 24
83	5 2 17	117	7 3 24	151	10 1 3

1. to 9. (O. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
152	10 1 11	186	12 2 18	220	14 3 25
153	10 1 18	187	12 2 26	221	15 0 5
154	10 1 26	188	12 3 5	222	15 0 12
155	10 2 6	189	12 3 13	223	15 0 20
156	10 2 13	190	12 3 21	224	15 1 0
157	10 2 21	191	13 0 0	225	15 1 7
158	10 3 1	192	13 0 8	226	15 1 15
159	10 3 8	193	13 0 15	227	15 1 23
160	10 3 16	194	13 0 23	228	15 2 2
161	10 3 23	195	13 1 3	229	15 2 10
162	11 0 3	196	13 1 10	230	15 2 17
163	11 0 11	197	13 1 18	231	15 2 25
164	11 0 18	198	13 1 26	232	15 3 5
165	11 0 26	199	13 2 5	233	15 3 12
166	11 1 6	200	13 2 13	234	15 3 20
167	11 1 13	201	13 2 20	235	16 0 0
168	11 1 21	202	13 3 0	236	16 0 7
169	11 2 0	203	13 3 8	237	16 0 15
170	11 2 8	204	13 3 15	238	16 0 22
171	11 2 16	205	13 3 23	239	16 1 2
172	11 2 23	206	14 0 3	240	16 1 10
173	11 3 3	207	14 0 10	241	16 1 17
174	11 3 11	208	14 0 18	242	16 1 25
175	11 3 18	209	14 0 25	243	16 2 5
176	11 3 26	210	14 1 5	244	16 2 12
177	12 0 5	211	14 1 13	245	16 2 20
178	12 0 13	212	14 1 20	246	16 2 27
179	12 0 21	213	14 2 0	247	16 3 7
180	12 1 0	214	14 2 8	248	16 3 15
181	12 1 8	215	14 2 15	249	16 3 22
182	12 1 16	216	14 2 23	250	17 0 2
183	12 1 23	217	14 3 2	251	17 0 10
184	12 2 3	218	14 3 10	252	17 0 17
185	12 2 10	219	14 3 18		

1. to 8. (O. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 1 17	84	5 2 23	118	8 0 2
51	3 1 24	85	5 3 3	119	8 0 10
52	3 2 4	86	5 3 11	120	8 0 18
53	3 2 11	87	5 3 18	121	8 0 25
54	3 2 19	88	5 3 26	122	8 1 5
55	3 2 27	89	6 0 6	123	8 1 12
56	3 3 6	90	6 0 13	124	8 1 20
57	3 3 14	91	6 0 21	125	8 2 0
58	3 3 22	92	6 1 0	126	8 2 7
59	4 0 1	93	6 1 8	127	8 2 15
60	4 0 9	94	6 1 16	128	8 2 23
61	4 0 16	95	6 1 23	129	8 3 2
62	4 0 24	96	6 2 3	130	8 3 10
63	4 1 4	97	6 2 10	131	8 3 17
64	4 1 11	98	6 2 18	132	8 3 25
65	4 1 19	99	6 2 26	133	9 0 5
66	4 1 26	100	6 3 5	134	9 0 12
67	4 2 6	101	6 3 13	135	9 0 20
68	4 2 14	102	6 3 21	136	9 0 27
69	4 2 21	103	7 0 0	137	9 1 7
70	4 3 1	104	7 0 8	138	9 1 15
71	4 3 9	105	7 0 15	139	9 1 22
72	4 3 16	106	7 0 23	140	9 2 2
73	4 3 23	107	7 1 3	141	9 2 9
74	5 0 3	108	7 1 10	142	9 2 17
75	5 0 11	109	7 1 18	143	9 2 25
76	5 0 19	110	7 1 25	144	9 3 4
77	5 0 26	111	7 2 5	145	9 3 12
78	5 1 6	112	7 2 13	146	9 3 20
79	5 1 13	113	7 2 20	147	9 3 27
80	5 1 21	114	7 3 0	148	10 0 7
81	5 2 1	115	7 3 8	149	10 0 14
82	5 2 8	116	7 3 15	150	10 0 22
83	5 2 16	117	7 3 23	151	10 1 2

1. to 8. (O. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
152	10 1 9	186	12 2 16	220	14 3 23
153	10 1 17	187	12 2 24	221	15 0 3
154	10 1 24	188	12 3 3	222	15 0 10
155	10 2 4	189	12 3 11	223	15 0 18
156	10 2 12	190	12 3 19	224	15 0 25
157	10 2 19	191	12 3 26	225	15 1 5
158	10 2 27	192	13 0 6	226	15 1 13
159	10 3 7	193	13 0 13	227	15 1 20
160	10 3 14	194	13 0 21	228	15 2 0
161	10 3 22	195	13 1 1	229	15 2 7
162	11 0 1	196	13 1 8	230	15 2 15
163	11 0 9	197	13 1 16	231	15 2 23
164	11 0 17	198	13 1 23	232	15 3 2
165	11 0 24	199	13 2 3	233	15 3 10
166	11 1 4	200	13 2 11	234	15 3 18
167	11 1 11	201	13 2 18	235	15 3 25
168	11 1 19	202	13 2 26	236	16 0 5
169	11 1 27	203	13 3 6	237	16 0 12
170	11 2 6	204	13 3 13	238	16 0 20
171	11 2 14	205	13 3 21	239	16 1 0
172	11 2 22	206	14 0 0	240	16 1 7
173	11 3 1	207	14 0 8	241	16 1 15
174	11 3 9	208	14 0 16	242	16 1 22
175	11 3 16	209	14 0 23	243	16 2 2
176	11 3 24	210	14 1 3	244	16 2 10
177	12 0 4	211	14 1 10	245	16 2 17
178	12 0 11	212	14 1 18	246	16 2 25
179	12 0 19	213	14 1 26	247	16 3 5
180	12 0 26	214	14 2 5	248	16 3 12
181	12 1 6	215	14 2 13	249	16 3 20
182	12 1 14	216	14 2 21	250	16 3 27
183	12 1 21	217	14 3 0	251	17 0 7
184	12 2 1	218	14 3 8	252	17 0 15
185	12 2 8	219	14 3 15		

1. to 7. (O. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 1 16	84	5 2 22	118	8 0 1
51	3 1 24	85	5 3 2	119	8 0 8
52	3 2 3	86	5 3 10	120	8 0 16
53	3 2 11	87	5 3 17	121	8 0 24
54	3 2 18	88	5 3 25	122	8 1 3
55	3 2 26	89	6 0 4	123	8 1 11
56	3 3 6	90	6 0 12	124	8 1 18
57	3 3 13	91	6 0 20	125	8 1 26
58	3 3 21	92	6 0 27	126	8 2 6
59	4 0 0	93	6 1 7	127	8 2 13
60	4 0 8	94	6 1 14	128	8 2 21
61	4 0 16	95	6 1 22	129	8 3 0
62	4 0 23	96	6 2 2	130	8 3 8
63	4 1 3	97	6 2 9	131	8 3 16
64	4 1 10	98	6 2 17	132	8 3 23
65	4 1 18	99	6 2 24	133	9 0 3
66	4 1 26	100	6 3 4	134	9 0 10
67	4 2 5	101	6 3 12	135	9 0 18
68	4 2 13	102	6 3 19	136	9 0 26
69	4 2 20	103	6 3 27	137	9 1 5
70	4 3 0	104	7 0 6	138	9 1 13
71	4 3 8	105	7 0 14	139	9 1 20
72	4 3 15	106	7 0 22	140	9 2 0
73	4 3 23	107	7 1 1	141	9 2 8
74	5 0 2	108	7 1 9	142	9 2 15
75	5 0 10	109	7 1 16	143	9 2 23
76	5 0 18	110	7 1 24	144	9 3 2
77	5 0 25	111	7 2 4	145	9 3 10
78	5 1 5	112	7 2 11	146	9 3 18
79	5 1 12	113	7 2 19	147	9 3 25
80	5 1 20	114	7 2 26	148	10 0 5
81	5 2 0	115	7 3 6	149	10 0 12
82	5 2 7	116	7 3 14	150	10 0 20
83	5 2 15	117	7 3 21	151	10 1 0

1. to 7. (O. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
152	10 1 7	186	12 2 14	220	14 3 20
153	10 1 15	187	12 2 21	221	15 0 0
154	10 1 22	188	12 3 1	222	15 0 7
155	10 2 2	189	12 3 8	223	15 0 15
156	10 2 10	190	12 3 16	224	15 0 22
157	10 2 17	191	12 3 24	225	15 1 2
158	10 2 25	192	13 0 3	226	15 1 10
159	10 3 4	193	13 0 11	227	15 1 17
160	10 3 12	194	13 0 18	228	15 1 25
161	10 3 20	195	13 0 26	229	15 2 4
162	10 3 27	196	13 1 6	230	15 2 12
163	11 0 7	197	13 1 13	231	15 2 20
164	11 0 14	198	13 1 21	232	15 2 27
165	11 0 22	199	13 2 0	233	15 3 7
166	11 1 2	200	13 2 8	234	15 3 14
167	11 1 9	201	13 2 16	235	15 3 22
168	11 1 17	202	13 2 23	236	16 0 2
169	11 1 24	203	13 3 3	237	16 0 9
170	11 2 4	204	13 3 10	238	16 0 17
171	11 2 12	205	13 3 18	239	16 0 24
172	11 2 19	206	13 3 26	240	16 1 4
173	11 2 27	207	14 0 5	241	16 1 12
174	11 3 6	208	14 0 13	242	16 1 19
175	11 3 14	209	14 0 20	243	16 1 27
176	11 3 22	210	14 1 0	244	16 2 6
177	12 0 1	211	14 1 8	245	16 2 14
178	12 0 9	212	14 1 15	246	16 2 22
179	12 0 16	213	14 1 23	247	16 3 1
180	12 0 24	214	14 2 2	248	16 3 9
181	12 1 4	215	14 2 10	249	16 3 16
182	12 1 11	216	14 2 18	250	16 3 24
183	12 1 19	217	14 2 25	251	17 0 4
184	12 1 26	218	14 3 5	252	17 0 11
185	12 2 6	219	14 3 12		

1. to 6. (O. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 1 15	84	5 2 21	118	7 3 27
51	3 1 23	85	5 3 0	119	8 0 6
52	3 2 2	86	5 3 8	120	8 0 14
53	3 2 10	87	5 3 16	121	8 0 21
54	3 2 17	88	5 3 23	122	8 1 1
55	3 2 25	89	6 0 3	123	8 1 9
56	3 3 5	90	6 0 10	124	8 1 16
57	3 3 12	91	6 0 18	125	8 1 24
58	3 3 20	92	6 0 26	126	8 2 3
59	3 3 27	93	6 1 5	127	8 2 11
60	4 0 7	94	6 1 13	128	8 2 19
61	4 0 14	95	6 1 20	129	8 2 26
62	4 0 22	96	6 2 0	130	8 3 6
63	4 1 2	97	6 2 7	131	8 3 13
64	4 1 9	98	6 2 15	132	8 3 21
65	4 1 17	99	6 2 23	133	9 0 0
66	4 1 24	100	6 3 2	134	9 0 8
67	4 2 4	101	6 3 10	135	9 0 16
68	4 2 12	102	6 3 17	136	9 0 23
69	4 2 19	103	6 3 25	137	9 1 3
70	4 2 27	104	7 0 5	138	9 1 10
71	4 3 6	105	7 0 12	139	9 1 18
72	4 3 14	106	7 0 20	140	9 1 26
73	4 3 21	107	7 0 27	141	9 2 5
74	5 0 1	108	7 1 7	142	9 2 13
75	5 0 9	109	7 1 14	143	9 2 20
76	5 0 16	110	7 1 22	144	9 3 0
77	5 0 24	111	7 2 2	145	9 3 7
78	5 1 3	112	7 2 9	146	9 3 15
79	5 1 11	113	7 2 17	147	9 3 23
80	5 1 19	114	7 2 24	148	10 0 2
81	5 1 26	115	7 3 4	149	10 0 10
82	5 2 6	116	7 3 11	150	10 0 17
83	5 2 13	117	7 3 19	151	10 0 25

1. to 6. (O. P.)

Gal.	C.	Q.	lb.	Gal.	C.	Q.	lb.	Gal.	C.	Q.	lb.
152	10	1	5	186	12	2	10	220	14	3	16
153	10	1	12	187	12	2	18	221	14	3	24
154	10	1	20	188	12	2	25	222	15	0	3
155	10	1	27	189	12	3	5	223	15	0	11
156	10	2	7	190	12	3	13	224	15	0	18
157	10	2	14	191	12	3	20	225	15	0	26
158	10	2	22	192	13	0	0	226	15	1	6
159	10	3	2	193	13	0	7	227	15	1	13
160	10	3	9	194	13	0	15	228	15	1	21
161	10	3	17	195	13	0	23	229	15	2	0
162	10	3	24	196	13	1	2	230	15	2	8
163	11	0	4	197	13	1	10	231	15	2	16
164	11	0	11	198	13	1	17	232	15	2	23
165	11	0	19	199	13	1	25	233	15	3	3
166	11	0	27	200	13	2	4	234	15	3	10
167	11	1	6	201	13	2	12	235	15	3	18
168	11	1	14	202	13	2	20	236	15	3	25
169	11	1	21	203	13	2	27	237	16	0	5
170	11	2	1	204	13	3	7	238	16	0	13
171	11	2	9	205	13	3	14	239	16	0	20
172	11	2	16	206	13	3	22	240	16	1	0
173	11	2	24	207	14	0	2	241	16	1	7
174	11	3	3	208	14	0	9	242	16	1	15
175	11	3	11	209	14	0	17	243	16	1	23
176	11	3	18	210	14	0	24	244	16	2	2
177	11	3	26	211	14	1	4	245	16	2	10
178	12	0	6	212	14	1	11	246	16	2	17
179	12	0	13	213	14	1	19	247	16	2	25
180	12	0	21	214	14	1	27	248	16	3	4
181	12	1	0	215	14	2	6	249	16	3	12
182	12	1	8	216	14	2	14	250	16	3	20
183	12	1	16	217	14	2	21	251	16	3	27
184	12	1	23	218	14	3	1	252	17	0	7
185	12	2	3	219	14	3	9				

1. to 5. (O. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 1 14	84	5 2 19	118	7 3 24
51	3 1 21	85	5 2 26	119	8 0 3
52	3 2 1	86	5 3 6	120	8 0 11
53	3 2 9	87	5 3 13	121	8 0 18
54	3 2 16	88	5 3 21	122	8 0 26
55	3 2 24	89	6 0 1	123	8 1 6
56	3 3 3	90	6 0 8	124	8 1 13
57	3 3 11	91	6 0 16	125	8 1 21
58	3 3 18	92	6 0 23	126	8 2 0
59	3 3 26	93	6 1 3	127	8 2 8
60	4 0 5	94	6 1 10	128	8 2 15
61	4 0 13	95	6 1 18	129	8 2 23
62	4 0 21	96	6 1 25	130	8 3 2
63	4 1 0	97	6 2 5	131	8 3 10
64	4 1 8	98	6 2 13	132	8 3 18
65	4 1 15	99	6 2 20	133	8 3 25
66	4 1 23	100	6 3 0	134	9 0 5
67	4 2 2	101	6 3 7	135	9 0 12
68	4 2 10	102	6 3 15	136	9 0 20
69	4 2 17	103	6 3 22	137	9 0 27
70	4 2 25	104	7 0 2	138	9 1 7
71	4 3 5	105	7 0 10	139	9 1 14
72	4 3 12	106	7 0 17	140	9 1 22
73	4 3 20	107	7 0 25	141	9 2 2
74	4 3 27	108	7 1 4	142	9 2 9
75	5 0 7	109	7 1 12	143	9 2 17
76	5 0 14	110	7 1 19	144	9 2 24
77	5 0 22	111	7 1 27	145	9 3 4
78	5 1 1	112	7 2 6	146	9 3 11
79	5 1 9	113	7 2 14	147	9 3 19
80	5 1 17	114	7 2 22	148	9 3 26
81	5 1 24	115	7 3 1	149	10 0 6
82	5 2 4	116	7 3 9	150	10 0 14
83	5 2 11	117	7 3 16	151	10 0 21

1. to 5. (O. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
152	10 1 1	186	12 2 6	220	14 3 11
153	10 1 8	187	12 2 13	221	14 3 18
154	10 1 16	188	12 2 21	222	14 3 26
155	10 1 23	189	12 3 0	223	15 0 5
156	10 2 3	190	12 3 8	224	15 0 13
157	10 2 11	191	12 3 15	225	15 0 20
158	10 2 18	192	12 3 23	226	15 1 0
159	10 2 26	193	13 0 3	227	15 1 8
160	10 3 5	194	13 0 10	228	15 1 15
161	10 3 13	195	13 0 18	229	15 1 23
162	10 3 20	196	13 0 25	230	15 2 2
163	11 0 0	197	13 1 5	231	15 2 10
164	11 0 7	198	13 1 12	232	15 2 17
165	11 0 15	199	13 1 20	233	15 2 25
166	11 0 23	200	13 2 0	234	15 3 4
167	11 1 2	201	13 2 7	235	15 3 12
168	11 1 10	202	13 2 15	236	15 3 20
169	11 1 17	203	13 2 22	237	15 3 27
170	11 1 25	204	13 3 2	238	16 0 7
171	11 2 4	205	13 3 9	239	16 0 14
172	11 2 12	206	13 3 17	240	16 0 22
173	11 2 19	207	13 3 24	241	16 1 1
174	11 2 27	208	14 0 4	242	16 1 9
175	11 3 7	209	14 0 12	243	16 1 16
176	11 3 14	210	14 0 19	244	16 1 24
177	11 3 22	211	14 0 27	245	16 2 4
178	12 0 1	212	14 1 6	246	16 2 11
179	12 0 9	213	14 1 14	247	16 2 19
180	12 0 16	214	14 1 21	248	16 2 26
181	12 0 24	215	14 2 1	249	16 3 6
182	12 1 3	216	14 2 8	250	16 3 13
183	12 1 11	217	14 2 16	251	16 3 21
184	12 1 19	218	14 2 24	252	17 0 1
185	12 1 26	219	14 3 3		

1. to 4. (O. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 1 12	84	5 2 16	118	7 3 19
51	3 1 19	85	5 2 23	119	7 3 27
52	3 1 27	86	5 3 3	120	8 0 6
53	3 2 7	87	5 3 10	121	8 0 14
54	3 2 14	88	5 3 18	122	8 0 21
55	3 2 22	89	5 3 25	123	8 1 1
56	3 3 1	90	6 0 5	124	8 1 8
57	3 3 9	91	6 0 12	125	8 1 16
58	3 3 16	92	6 0 20	126	8 1 24
59	3 3 24	93	6 0 27	127	8 2 3
60	4 0 3	94	6 1 7	128	8 2 11
61	4 0 11	95	6 1 14	129	8 2 18
62	4 0 18	96	6 1 22	130	8 2 26
63	4 0 26	97	6 2 1	131	8 3 5
64	4 1 5	98	6 2 9	132	8 3 13
65	4 1 13	99	6 2 16	133	8 3 20
66	4 1 20	100	6 2 24	134	9 0 0
67	4 2 0	101	6 3 4	135	9 0 7
68	4 2 7	102	6 3 11	136	9 0 15
69	4 2 15	103	6 3 19	137	9 0 22
70	4 2 22	104	6 3 26	138	9 1 2
71	4 3 2	105	7 0 6	139	9 1 9
72	4 3 9	106	7 0 13	140	9 1 17
73	4 3 17	107	7 0 21	141	9 1 24
74	4 3 24	108	7 1 0	142	9 2 4
75	5 0 4	109	7 1 8	143	9 2 11
76	5 0 11	110	7 1 15	144	9 2 19
77	5 0 19	111	7 1 23	145	9 2 26
78	5 0 27	112	7 2 2	146	9 3 6
79	5 1 6	113	7 2 10	147	9 3 13
80	5 1 14	114	7 2 17	148	9 3 21
81	5 1 21	115	7 2 25	149	10 0 0
82	5 2 1	116	7 3 4	150	10 0 8
83	5 2 8	117	7 3 12	151	10 0 16

1. to 4. (O. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
152	10 0 23	186	12 1 27	220	14 3 2
153	10 1 3	187	12 2 6	221	14 3 10
154	10 1 10	188	12 2 14	222	14 3 17
155	10 1 18	189	12 2 21	223	14 3 25
156	10 1 25	190	12 3 1	224	15 0 5
157	10 2 5	191	12 3 8	225	15 0 12
158	10 2 12	192	12 3 16	226	15 0 20
159	10 2 20	193	12 3 23	227	15 0 27
160	10 2 27	194	13 0 3	228	15 1 7
161	10 3 7	195	13 0 10	229	15 1 14
162	10 3 14	196	13 0 18	230	15 1 22
163	10 3 22	197	13 1 25	231	15 2 1
164	11 0 1	198	13 1 5	232	15 2 9
165	11 0 9	199	13 1 13	233	15 2 16
166	11 0 16	200	13 1 20	234	15 2 24
167	11 0 24	201	13 2 0	235	15 3 3
168	11 1 3	202	13 2 7	236	15 3 11
169	11 1 11	203	13 2 15	237	15 3 18
170	11 1 18	204	13 2 22	238	15 3 26
171	11 1 26	205	13 3 2	239	16 0 5
172	11 2 5	206	13 3 9	240	16 0 13
173	11 2 13	207	13 3 17	241	16 0 20
174	11 2 21	208	13 3 24	242	16 1 0
175	11 3 0	209	14 0 4	243	16 1 7
176	11 3 8	210	14 0 11	244	16 1 15
177	11 3 15	211	14 0 19	245	16 1 22
178	11 3 23	212	14 0 26	246	16 2 2
179	12 0 2	213	14 1 6	247	16 2 10
180	12 0 10	214	14 1 13	248	16 2 17
181	12 0 17	215	14 1 21	249	16 2 25
182	12 0 25	216	14 2 0	250	16 3 4
183	12 1 4	217	14 2 8	251	16 3 12
184	12 1 12	218	14 2 15	252	16 3 19
185	12 1 19	219	14 2 23		

1. to 3. (O. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 1 9	84	5 2 10	118	7 3 12
51	3 1 16	85	5 2 18	119	7 3 19
52	3 1 24	86	5 2 25	120	7 3 27
53	3 2 3	87	5 3 5	121	8 0 6
54	3 2 11	88	5 3 12	122	8 0 14
55	3 2 18	89	5 3 20	123	8 0 21
56	3 2 26	90	5 3 27	124	8 1 1
57	3 3 5	91	6 0 7	125	8 1 8
58	3 3 13	92	6 0 14	126	8 1 16
59	3 3 20	93	6 0 22	127	8 1 23
60	3 3 27	94	6 1 1	128	8 2 3
61	4 0 7	95	6 1 8	129	8 2 10
62	4 0 14	96	6 1 16	130	8 2 18
63	4 0 22	97	6 1 23	131	8 2 25
64	4 1 1	98	6 2 3	132	8 3 4
65	4 1 9	99	6 2 10	133	8 3 12
66	4 1 16	100	6 2 18	134	8 3 19
67	4 1 24	101	6 2 25	135	8 3 27
68	4 2 3	102	6 3 5	136	9 0 6
69	4 2 11	103	6 3 12	137	9 0 14
70	4 2 18	104	6 3 20	138	9 0 21
71	4 2 25	105	6 3 27	139	9 1 1
72	4 3 5	106	7 0 7	140	9 1 8
73	4 3 12	107	7 0 14	141	9 1 16
74	4 3 20	108	7 0 21	142	9 1 23
75	4 3 27	109	7 1 1	143	9 2 2
76	5 0 7	110	7 1 8	144	9 2 10
77	5 0 14	111	7 1 16	145	9 2 17
78	5 0 22	112	7 1 23	146	9 2 25
79	5 1 1	113	7 2 3	147	9 3 4
80	5 1 9	114	7 2 10	148	9 3 12
81	5 1 16	115	7 2 18	149	9 3 19
82	5 1 24	116	7 2 25	150	9 3 27
83	5 2 3	117	7 3 5	151	10 0 6

1. to 3. (O. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
152	10 0 14	186	12 1 15	220	14 2 17
153	10 0 21	187	12 1 23	221	14 2 24
154	10 1 1	188	12 2 2	222	14 3 4
155	10 1 8	189	12 2 10	223	14 3 11
156	10 1 15	190	12 2 17	224	14 3 19
157	10 1 23	191	12 2 24	225	14 3 26
158	10 2 2	192	12 3 4	226	15 0 6
159	10 2 10	193	12 3 11	227	15 0 13
160	10 2 17	194	12 3 19	228	15 0 20
161	10 2 25	195	12 3 26	229	15 1 0
162	10 3 4	196	13 0 6	230	15 1 7
163	10 3 12	197	13 0 13	231	15 1 15
164	10 3 19	198	13 0 21	232	15 1 22
165	10 3 27	199	13 1 0	233	15 2 2
166	11 0 6	200	13 1 8	234	15 2 9
167	11 0 13	201	13 1 15	235	15 2 17
168	11 0 21	202	13 1 23	236	15 2 24
169	11 1 0	203	13 2 2	237	15 3 4
170	11 1 8	204	13 2 9	238	15 3 11
171	11 1 15	205	13 2 17	239	15 3 18
172	11 1 23	206	13 2 24	240	15 3 26
173	11 2 2	207	13 3 4	241	16 0 5
174	11 2 10	208	13 3 11	242	16 0 13
175	11 2 17	209	13 3 19	243	16 0 20
176	11 2 25	210	13 3 26	244	16 1 0
177	11 3 4	211	14 0 6	245	16 1 7
178	11 3 12	212	14 0 13	246	16 1 15
179	11 3 19	213	14 0 21	247	16 1 22
180	11 3 26	214	14 1 0	248	16 2 2
181	12 0 6	215	14 1 7	249	16 2 9
182	12 0 13	216	14 1 15	250	16 2 17
183	12 0 21	217	14 1 22	251	16 2 24
184	12 1 0	218	14 2 2	252	16 3 3
185	12 1 8	219	14 2 9		

1. to 2. (O. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 1 3	84	5 2 0	118	7 2 25
51	3 1 10	85	5 2 7	119	7 3 5
52	3 1 17	86	5 2 15	120	7 3 12
53	3 1 25	87	5 2 22	121	7 3 19
54	3 2 4	88	5 3 1	122	7 3 27
55	3 2 11	89	5 3 9	123	8 0 6
56	3 2 19	90	5 3 16	124	8 0 13
57	3 2 26	91	5 3 23	125	8 0 21
58	3 3 5	92	6 0 3	126	8 1 0
59	3 3 13	93	6 0 10	127	8 1 7
60	3 3 20	94	6 0 17	128	8 1 15
61	3 3 27	95	6 0 25	129	8 1 22
62	4 0 7	96	6 1 4	130	8 2 1
63	4 0 14	97	6 1 11	131	8 2 9
64	4 0 21	98	6 1 19	132	8 2 16
65	4 1 1	99	6 1 26	133	8 2 23
66	4 1 8	100	6 2 5	134	8 3 3
67	4 1 15	101	6 2 13	135	8 3 10
68	4 1 23	102	6 2 20	136	8 3 17
69	4 2 2	103	6 2 27	137	8 3 25
70	4 2 9	104	6 3 7	138	9 0 4
71	4 2 17	105	6 3 14	139	9 0 11
72	4 2 24	106	6 3 21	140	9 0 19
73	4 3 3	107	7 0 1	141	9 0 26
74	4 3 11	108	7 0 8	142	9 1 5
75	4 3 18	109	7 0 15	143	9 1 13
76	4 3 25	110	7 0 23	144	9 1 20
77	5 0 5	111	7 1 2	145	9 1 27
78	5 0 12	112	7 1 9	146	9 2 7
79	5 0 19	113	7 1 17	147	9 2 14
80	5 0 27	114	7 1 24	148	9 2 21
81	5 1 6	115	7 2 3	149	9 3 1
82	5 1 13	116	7 2 11	150	9 3 8
83	5 1 21	117	7 2 18	151	9 3 15

1. to 2. (O. P.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
152	9 3 23	186	12 0 20	220	14 1 17
153	10 0 2	187	12 0 27	221	14 1 25
154	10 0 9	188	12 1 7	222	14 2 4
155	10 0 17	189	12 1 14	223	14 2 11
156	10 0 24	190	12 1 21	224	14 2 19
157	10 1 3	191	12 2 1	225	14 2 26
158	10 1 11	192	12 2 8	226	14 3 5
159	10 1 18	193	12 2 15	227	14 3 13
160	10 1 25	194	12 2 23	228	14 3 20
161	10 2 5	195	12 3 2	229	14 3 27
162	10 2 12	196	12 3 9	230	15 0 7
163	10 2 19	197	12 3 17	231	15 0 14
164	10 2 27	198	12 3 24	232	15 0 21
165	10 3 6	199	13 0 3	233	15 1 1
166	10 3 13	200	13 0 11	234	15 1 8
167	10 3 21	201	13 0 18	235	15 1 15
168	11 0 0	202	13 0 25	236	15 1 23
169	11 0 7	203	13 1 5	237	15 2 2
170	11 0 15	204	13 1 12	238	15 2 9
171	11 0 22	205	13 1 19	239	15 2 17
172	11 1 1	206	13 1 27	240	15 2 24
173	11 1 9	207	13 2 6	241	15 3 3
174	11 1 16	208	13 2 13	242	15 3 11
175	11 1 23	209	13 2 21	243	15 3 18
176	11 2 3	210	13 3 0	244	15 3 25
177	11 2 10	211	13 3 7	245	16 0 5
178	11 2 17	212	13 3 15	246	16 0 12
179	11 2 25	213	13 3 22	247	16 0 19
180	11 3 4	214	14 0 1	248	16 0 27
181	11 3 11	215	14 0 9	249	16 1 6
182	11 3 19	216	14 0 16	250	16 1 13
183	11 3 26	217	14 0 23	251	16 1 21
184	12 0 5	218	14 1 3	252	16 2 0
185	12 0 13	219	14 1 10		

Alcohol.

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 0 12	84	5 0 25	118	7 1 9
51	3 0 19	85	5 1 4	119	7 1 16
52	3 0 26	86	5 1 11	120	7 1 23
53	3 1 5	87	5 1 18	121	7 2 2
54	3 1 12	88	5 1 25	122	7 2 9
55	3 1 19	89	5 2 3	123	7 2 16
56	3 1 26	90	5 2 10	124	7 2 23
57	3 2 5	91	5 2 17	125	7 3 2
58	3 2 12	92	5 2 24	126	7 3 9
59	3 2 19	93	5 3 3	127	7 3 16
60	3 2 26	94	5 3 10	128	7 3 23
61	3 3 5	95	5 3 17	129	8 0 2
62	3 3 12	96	5 3 24	130	8 0 9
63	3 3 18	97	6 0 3	131	8 0 16
64	3 3 25	98	6 0 10	132	8 0 23
65	4 0 4	99	6 0 17	133	8 1 2
66	4 0 11	100	6 0 24	134	8 1 9
67	4 0 18	101	6 1 3	135	8 1 16
68	4 0 25	102	6 1 10	136	8 1 23
69	4 1 4	103	6 1 17	137	8 2 2
70	4 1 11	104	6 1 24	138	8 2 9
71	4 1 18	105	6 2 3	139	8 2 16
72	4 1 25	106	6 2 10	140	8 2 22
73	4 2 4	107	6 2 17	141	8 3 1
74	4 2 11	108	6 2 24	142	8 3 8
75	4 2 18	109	6 3 3	143	8 3 15
76	4 2 25	110	6 3 10	144	8 3 22
77	4 3 4	111	6 3 17	145	9 0 1
78	4 3 11	112	6 3 24	146	9 0 8
79	4 3 18	113	7 0 3	147	9 0 15
80	4 3 25	114	7 0 9	148	9 0 22
81	5 0 4	115	7 0 16	149	9 1 1
82	5 0 11	116	7 0 23	150	9 1 8
83	5 0 18	117	7 1 2	151	9 1 15

Alcohol.

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
152	9 1 22	186	11 2 7	220	13 2 19
153	9 2 1	187	11 2 14	221	13 2 26
154	9 2 8	188	11 2 21	222	13 3 5
155	9 2 15	189	11 3 0	223	13 3 12
156	9 2 22	190	11 3 7	224	13 3 19
157	9 3 1	191	11 3 13	225	13 3 26
158	9 3 8	192	11 3 20	226	14 0 5
159	9 3 15	193	11 3 27	227	14 0 12
160	9 3 22	194	12 0 6	228	14 0 19
161	10 0 1	195	12 0 13	229	14 0 26
162	10 0 8	196	12 0 20	230	14 1 5
163	10 0 15	197	12 0 27	231	14 1 12
164	10 0 22	198	12 1 6	232	14 1 19
165	10 1 0	199	12 1 13	233	14 1 26
166	10 1 7	200	12 1 20	234	14 2 5
167	10 1 14	201	12 1 27	235	14 2 12
168	10 1 21	202	12 2 6	236	14 2 19
169	10 2 0	203	12 2 13	237	14 2 26
170	10 2 7	204	12 2 20	238	14 3 5
171	10 2 14	205	12 2 27	239	14 3 12
172	10 2 21	206	12 3 6	240	14 3 19
173	10 3 0	207	12 3 13	241	14 3 26
174	10 3 7	208	12 3 20	242	15 0 4
175	10 3 14	209	12 3 27	243	15 0 11
176	10 3 21	210	13 0 6	244	15 0 18
177	11 0 0	211	13 0 13	245	15 0 25
178	11 0 7	212	13 0 20	246	15 1 4
179	11 0 14	213	13 0 27	247	15 1 11
180	11 0 21	214	13 1 6	248	15 1 18
181	11 1 0	215	13 1 13	249	15 1 25
182	11 1 7	216	13 1 20	250	15 2 4
183	11 1 14	217	13 1 26	251	15 2 11
184	11 1 21	218	13 2 5	252	15 2 18
185	11 2 0	219	13 2 12		

GENERAL RULES

FOR CALCULATING

Any given Quantity of *Spirits* of any given *Strength*,

To ascertain its proper QUANTITY

Of any other assigned STRENGTH.

RULE 1st.—Bring the given *Strength* to *Hydrometer Proof*, by dividing the given Quantity by its given *Strength over or under Hydrometer Proof*; If the given *Strength* be over *Hydrometer Proof*, add the Quotient thereto; but if under *Hydrometer Proof* deduct it therefrom, which gives the Quantity at **HYDROMETER PROOF**.

RULE 2d.—If the assigned *Strength* be over *Hydrometer Proof*, divide the aforesaid Proof *Spirits* by one more than the assigned *Strength*, (as suppose 1 to 10, divide by 11) and deduct the Quotient therefrom; which gives the exact Quantity at 1 to 10 over *Hydrometer Proof*.

BUT if the assigned *Strength* be under *Hydrometer Proof*; divide the aforesaid Proof *Spirits* by one less than the assigned *Strength*, (as suppose 1 in 10, divide by 9) and add the Quotient thereto, which gives the required Quantity at 1 in 10 under *Hydrometer Proof*.

EXAMPLES.

E X A M P L E S.

Ex. 1st.—Suppose 1000 Gallons of Spirits at 1 to 10 O. P. what Quantity of Water will be necessary to reduce it to *Hydrometer Proof*?

Gal.

10) 1000

100 Water necessary.

1,100 Quantity when lowered.

Ex. 2d.—Suppose 1000 Gallons at 1 to 20 O. P. what Quantity of Water will be necessary to reduce it to 1 in 8 U. P?

Gal.

20) 1000

50 Water.

7) 1,050 *Hydrometer Proof*.

150 Water.

1,200 Quantity when lowered to 1 in 8 U. P.
consequently it will require 200 Gal. of Water.

Ex. 3d.—Suppose 1000 Gallons at 1 in 10 U. P. what Quantity of Water is necessary to reduce it to 1 in 5 U. P.?

Gal.

10) 1000

100

4) 900 *Hydrometer Proof*.

225

1,125 Quantity when lowered to 1 in 5 U. P.
consequently it will require 125 Gal. of Water.

Ex. 4th.—What Quantity of Spirits at 1 to 3 O. P. is equal to 1000 Gal. at *Hydrometer Proof*?

Gal.

4) 1000

250

750 at 1 to 3 O. P.

Table shewing the Weight of VINEGAR,

Gal	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
50	3 3 2	84	6 1 9	118	8 3 16
51	3 3 10	85	6 1 17	119	8 3 24
52	3 3 19	86	6 1 26	120	9 0 4
53	3 3 27	87	6 2 6	121	9 0 13
54	4 0 8	88	6 2 14	122	9 0 21
55	4 0 16	89	6 2 23	123	9 1 2
56	4 0 24	90	6 3 3	124	9 1 10
57	4 1 5	91	6 3 12	125	9 1 19
58	4 1 13	92	6 3 20	126	9 1 27
59	4 1 22	93	7 0 1	127	9 2 8
60	4 2 2	94	7 0 9	128	9 2 16
61	4 2 11	95	7 0 18	129	9 2 24
62	4 2 19	96	7 0 26	130	9 3 5
63	4 3 0	97	7 1 6	131	9 3 13
64	4 3 8	98	7 1 15	132	9 3 22
65	4 3 16	99	7 1 23	133	10 0 2
66	4 3 25	100	7 2 4	134	10 0 11
67	5 0 5	101	7 2 12	135	10 0 19
68	5 0 14	102	7 2 21	136	10 0 27
69	5 0 22	103	7 3 1	137	10 1 8
70	5 1 3	104	7 3 9	138	10 1 16
71	5 1 11	105	7 3 18	139	10 1 25
72	5 1 19	106	7 3 26	140	10 2 5
73	5 2 0	107	8 0 7	141	10 2 14
74	5 2 8	108	8 0 15	142	10 2 22
75	5 2 17	109	8 0 24	143	10 3 3
76	5 2 25	110	8 1 4	144	10 3 11
77	5 3 6	111	8 1 13	145	10 3 19
78	5 3 14	112	8 1 21	146	11 0 0
79	5 3 23	113	8 2 1	147	11 0 8
80	6 0 3	114	8 2 10	148	11 0 17
81	6 0 11	115	8 2 18	149	11 0 25
82	6 0 20	116	8 2 27	150	11 1 6
83	6 1 0	117	8 3 7	151	11 1 14

from 50 Gallons to 252, (Wine Measure.)

Gal.	C. Q. lb.	Gal.	C. Q. lb.	Gal.	C. Q. lb.
152	11 1 22	186	14 0 1	220	16 2 8
153	11 2 3	187	14 0 10	221	16 2 17
154	11 2 11	188	14 0 18	222	16 2 25
155	11 2 20	189	14 0 27	223	16 3 6
156	11 3 0	190	14 1 7	224	16 3 14
157	11 3 9	191	14 1 16	225	16 3 22
158	11 3 17	192	14 1 24	226	17 0 3
159	11 3 26	193	14 2 4	227	17 0 11
160	12 0 6	194	14 2 13	228	17 0 20
161	12 0 14	195	14 2 21	229	17 1 0
162	12 0 23	196	14 3 2	230	17 1 9
163	12 1 3	197	14 3 10	231	17 1 17
164	12 1 12	198	14 3 19	232	17 1 25
165	12 1 20	199	14 3 27	233	17 2 6
166	12 2 1	200	15 0 7	234	17 2 14
167	12 2 9	201	15 0 16	235	17 2 23
168	12 2 17	202	15 0 24	236	17 3 3
169	12 2 26	203	15 1 5	237	17 3 12
170	12 3 6	204	15 1 13	238	17 3 20
171	12 3 15	205	15 1 22	239	18 0 1
172	12 3 23	206	15 2 2	240	18 0 9
173	13 0 4	207	15 2 11	241	18 0 17
174	13 0 12	208	15 2 19	242	18 0 26
175	13 0 21	209	15 2 27	243	18 1 6
176	13 1 1	210	15 3 8	244	18 1 15
177	13 1 9	211	15 3 16	245	18 1 23
178	13 1 18	212	15 3 25	246	18 2 4
179	13 1 26	213	16 0 5	247	18 2 12
180	13 2 7	214	16 0 14	248	18 2 20
181	13 2 15	215	16 0 22	249	18 3 1
182	13 2 24	216	16 1 2	250	18 3 9
183	13 3 4	217	16 1 11	251	18 3 18
184	13 3 12	218	16 1 19	252	18 3 26
185	13 3 21	219	16 2 0		

A
T A B L E,

Shewing the VALUE of one Gallon of SPIRITS,

Of any given S T R E N G T H,

CORRESPONDING WITH THE

Comparative VALUE of one Gallon of any

other S T R E N G T H.

TABLE, shewing the corresponding

U. P. 1 in 2		1 in 3		1 in 4		1 in 5		1 in 6		1 in 7		refer.
s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	
2	$4\frac{1}{2}$	3	2	3	$6\frac{3}{4}$	3	$9\frac{1}{2}$	3	$11\frac{1}{2}$	4	$0\frac{3}{4}$	a
2	6	3	4	3	9	4	0	4	2	4	$3\frac{1}{4}$	b
2	$7\frac{1}{2}$	3	6	3	$11\frac{1}{4}$	4	$2\frac{1}{4}$	4	$4\frac{1}{2}$	4	6	c
2	9	3	8	4	$1\frac{1}{2}$	4	$4\frac{3}{4}$	4	7	4	$8\frac{1}{2}$	d
2	$10\frac{1}{2}$	3	10	4	$3\frac{3}{4}$	4	7	4	$9\frac{1}{2}$	4	11	e
3	0	4	0	4	6	4	$9\frac{1}{2}$	5	0	5	$1\frac{1}{2}$	f
3	$1\frac{1}{2}$	4	2	4	$8\frac{1}{4}$	5	0	5	$2\frac{1}{2}$	5	$4\frac{1}{4}$	g
3	3	4	4	4	$10\frac{1}{2}$	5	$2\frac{1}{4}$	5	5	5	$6\frac{3}{4}$	h
3	$4\frac{1}{2}$	4	6	5	0	5	$4\frac{3}{4}$	5	$7\frac{1}{2}$	5	$9\frac{1}{4}$	i
3	6	4	8	5	3	5	7	5	10	6	0	j
3	$7\frac{1}{2}$	4	10	5	$5\frac{1}{4}$	5	$9\frac{1}{2}$	6	$0\frac{1}{2}$	6	$2\frac{1}{2}$	k
3	9	5	0	5	$7\frac{1}{2}$	6	0	6	3	6	5	l
3	$10\frac{1}{2}$	5	2	5	$9\frac{3}{4}$	6	$2\frac{1}{4}$	6	$5\frac{1}{2}$	6	$7\frac{1}{2}$	m
4	0	5	4	6	0	6	$4\frac{3}{4}$	6	8	6	$10\frac{1}{4}$	n
4	$1\frac{1}{2}$	5	6	6	$2\frac{1}{4}$	6	7	6	$10\frac{1}{2}$	7	$0\frac{3}{4}$	o
4	3	5	8	6	$4\frac{1}{2}$	6	$9\frac{1}{2}$	7	1	7	$3\frac{1}{4}$	p
4	$4\frac{1}{2}$	5	10	6	$6\frac{3}{4}$	7	0	7	$3\frac{1}{2}$	7	6	q
4	6	6	0	6	9	7	$2\frac{1}{4}$	7	6	7	$8\frac{1}{2}$	r
4	$7\frac{1}{2}$	6	2	6	$11\frac{1}{4}$	7	$4\frac{3}{4}$	7	$8\frac{1}{2}$	7	11	s
4	9	6	4	7	$1\frac{1}{2}$	7	7	7	$11\frac{1}{2}$	8	$1\frac{1}{2}$	t
4	$10\frac{1}{2}$	6	6	7	$3\frac{3}{4}$	7	$9\frac{1}{2}$	8	$1\frac{1}{2}$	8	$4\frac{1}{4}$	u
5	0	6	8	7	6	8	0	8	4	8	$6\frac{3}{4}$	v
5	$1\frac{1}{2}$	6	10	7	$8\frac{1}{4}$	8	$2\frac{1}{4}$	8	$6\frac{1}{2}$	8	$9\frac{1}{4}$	w
5	3	7	0	7	$10\frac{1}{2}$	8	$4\frac{3}{4}$	8	9	9	0	x
5	$4\frac{1}{2}$	7	2	8	$0\frac{3}{4}$	8	7	8	$11\frac{1}{2}$	9	$2\frac{1}{2}$	y
5	6	7	4	8	3	8	$9\frac{1}{2}$	9	2	9	5	z
5	$7\frac{1}{2}$	7	6	8	$5\frac{1}{4}$	9	0	9	$4\frac{1}{2}$	9	$7\frac{1}{2}$	a
5	9	7	8	8	$7\frac{1}{2}$	9	$2\frac{1}{4}$	9	7	9	$10\frac{1}{4}$	b
5	$10\frac{1}{2}$	7	10	8	$9\frac{3}{4}$	9	$4\frac{3}{4}$	9	$9\frac{1}{2}$	10	$0\frac{3}{4}$	c
6	0	8	0	9	0	9	7	10	0	10	$3\frac{1}{4}$	d
6	$1\frac{1}{2}$	8	2	9	$2\frac{1}{4}$	9	$9\frac{1}{2}$	10	$2\frac{1}{2}$	10	6	e
6	3	8	4	9	$4\frac{1}{2}$	10	0	10	5	10	$8\frac{1}{2}$	f
6	$4\frac{1}{2}$	8	6	9	$6\frac{3}{4}$	10	$2\frac{1}{4}$	10	$7\frac{1}{2}$	10	11	g
6	6	8	8	9	9	10	$4\frac{3}{4}$	10	10	11	$1\frac{1}{2}$	h

VALUE of SPIRITS.

Refer.	1 in 8		1 in 9		1 in 10		1 in 15		1 in 20		Hydr. Proof.	
	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.
a	4	$1\frac{3}{4}$	4	$2\frac{1}{2}$	4	$3\frac{1}{4}$	4	5	4	6	4	9
b	4	$4\frac{1}{2}$	4	$5\frac{1}{4}$	4	6	4	8	4	9	5	0
c	4	7	4	8	4	$8\frac{1}{2}$	4	$10\frac{3}{4}$	4	$11\frac{3}{4}$	5	3
d	4	$9\frac{3}{4}$	4	$10\frac{1}{2}$	4	$11\frac{1}{4}$	5	$1\frac{1}{2}$	5	$2\frac{1}{2}$	5	6
e	5	$0\frac{1}{4}$	5	$1\frac{1}{4}$	5	2	5	$4\frac{1}{4}$	5	$5\frac{1}{2}$	5	9
f	5	3	5	4	5	$4\frac{3}{4}$	5	7	5	$8\frac{1}{4}$	5	0
g	5	$5\frac{1}{2}$	5	$6\frac{1}{2}$	5	$7\frac{1}{2}$	5	10	5	$11\frac{1}{4}$	6	3
h	5	$8\frac{1}{4}$	5	$9\frac{1}{4}$	5	10	6	$0\frac{3}{4}$	6	2	6	6
i	5	$10\frac{3}{4}$	6	0	6	$0\frac{3}{4}$	6	$3\frac{1}{2}$	6	$4\frac{3}{4}$	6	9
j	6	$1\frac{1}{2}$	6	$2\frac{1}{2}$	6	$3\frac{1}{2}$	6	$6\frac{1}{4}$	6	$7\frac{3}{4}$	7	0
k	6	4	6	$5\frac{1}{4}$	6	$6\frac{1}{4}$	6	9	6	$10\frac{1}{2}$	7	3
l	6	$6\frac{3}{4}$	6	8	6	9	7	0	7	$1\frac{1}{2}$	7	6
m	6	$9\frac{1}{4}$	6	$10\frac{1}{2}$	6	$11\frac{1}{2}$	7	$2\frac{3}{4}$	7	$4\frac{1}{4}$	7	9
n	7	0	6	$1\frac{1}{4}$	7	$2\frac{1}{4}$	7	$5\frac{1}{2}$	7	7	8	0
o	7	$2\frac{1}{2}$	7	4	7	5	7	$8\frac{1}{4}$	7	10	8	3
p	7	$5\frac{1}{4}$	7	$6\frac{1}{2}$	7	$7\frac{3}{4}$	7	11	8	$0\frac{3}{4}$	8	6
q	7	$7\frac{3}{4}$	7	$9\frac{1}{4}$	7	$10\frac{1}{2}$	8	2	8	$3\frac{3}{4}$	8	9
r	7	$10\frac{1}{2}$	8	0	8	1	8	$4\frac{3}{4}$	8	$6\frac{1}{2}$	9	0
s	8	1	8	$2\frac{1}{2}$	8	$3\frac{3}{4}$	8	$7\frac{1}{2}$	8	$9\frac{1}{4}$	9	3
t	8	$3\frac{3}{4}$	8	$5\frac{1}{4}$	8	$6\frac{1}{2}$	8	$10\frac{1}{4}$	9	$0\frac{1}{4}$	9	6
u	8	$6\frac{1}{4}$	8	8	8	$9\frac{1}{4}$	9	1	9	3	9	9
v	8	9	8	$10\frac{1}{4}$	9	0	9	4	9	6	10	0
w	8	$11\frac{1}{2}$	9	$1\frac{1}{4}$	9	$2\frac{1}{2}$	9	$6\frac{3}{4}$	9	$8\frac{3}{4}$	10	3
x	9	$2\frac{1}{4}$	9	4	9	$5\frac{1}{4}$	9	$9\frac{1}{2}$	9	$11\frac{1}{2}$	10	6
y	9	$4\frac{3}{4}$	9	$6\frac{1}{2}$	9	8	10	$0\frac{1}{4}$	10	$2\frac{1}{2}$	10	9
z	9	$7\frac{1}{2}$	9	$9\frac{1}{4}$	9	$10\frac{3}{4}$	10	3	10	$5\frac{1}{4}$	11	0
a	9	10	10	0	10	$1\frac{1}{2}$	10	6	10	$8\frac{1}{4}$	11	3
b	10	$0\frac{3}{4}$	10	$2\frac{1}{2}$	10	4	10	$8\frac{3}{4}$	10	11	11	6
c	10	$3\frac{3}{4}$	10	$5\frac{1}{4}$	10	$6\frac{3}{4}$	10	$11\frac{1}{2}$	10	$1\frac{3}{4}$	11	9
d	10	6	10	8	10	$9\frac{1}{2}$	11	$2\frac{1}{4}$	11	$4\frac{3}{4}$	12	0
e	10	$8\frac{1}{2}$	10	$10\frac{1}{2}$	11	$0\frac{1}{4}$	11	5	11	$7\frac{1}{2}$	12	3
f	10	$11\frac{1}{4}$	11	$1\frac{1}{4}$	11	3	11	8	11	$10\frac{1}{2}$	12	6
g	11	$1\frac{3}{4}$	11	4	11	$5\frac{1}{2}$	11	$10\frac{3}{4}$	12	$1\frac{1}{4}$	12	9
h	11	$4\frac{1}{2}$	11	$6\frac{1}{2}$	11	$8\frac{1}{4}$	12	$1\frac{1}{2}$	12	4	13	0

TABLE continued for the VALUE

O. P.		1 to 15		1 to 10		1 to 9		1 to 8		1 to 7		Refer.
s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	
4	$11\frac{3}{4}$	5	$0\frac{3}{4}$	5	$2\frac{1}{2}$	5	$3\frac{1}{4}$	5	4	5	5	a
5	3	5	4	5	6	5	$6\frac{1}{2}$	5	$7\frac{1}{2}$	5	$8\frac{1}{2}$	b
5	6	5	7	5	$9\frac{1}{4}$	5	10	5	$10\frac{3}{4}$	6	0	c
5	$9\frac{1}{4}$	5	$10\frac{1}{4}$	6	$0\frac{1}{2}$	6	$1\frac{1}{4}$	6	$2\frac{1}{4}$	6	$3\frac{1}{4}$	d
6	$0\frac{1}{4}$	6	$1\frac{1}{2}$	6	$3\frac{3}{4}$	6	$4\frac{1}{2}$	6	$5\frac{1}{2}$	6	$6\frac{3}{4}$	e
6	$3\frac{1}{2}$	6	$4\frac{3}{4}$	6	7	6	8	6	9	6	$10\frac{1}{4}$	f
6	$6\frac{3}{4}$	6	8	6	$10\frac{1}{2}$	6	$11\frac{1}{4}$	7	$0\frac{1}{4}$	7	$1\frac{1}{2}$	g
6	$9\frac{3}{4}$	6	11	7	$1\frac{3}{4}$	7	$2\frac{1}{2}$	7	$3\frac{3}{4}$	7	5	h
7	1	7	$2\frac{1}{4}$	7	5	7	6	7	7	7	$8\frac{1}{2}$	i
7	4	7	$5\frac{1}{2}$	7	$8\frac{1}{4}$	7	$9\frac{1}{4}$	7	$10\frac{1}{2}$	8	0	j
7	$7\frac{1}{4}$	7	$8\frac{3}{4}$	7	$11\frac{1}{2}$	8	$0\frac{1}{2}$	8	$1\frac{3}{4}$	8	$3\frac{1}{4}$	k
7	$10\frac{1}{2}$	8	0	8	3	8	4	8	$5\frac{1}{4}$	8	$6\frac{3}{4}$	l
8	$1\frac{1}{2}$	8	3	8	$6\frac{1}{4}$	8	$7\frac{1}{4}$	8	$8\frac{1}{2}$	8	$10\frac{1}{4}$	m
8	$4\frac{3}{4}$	8	$6\frac{1}{4}$	8	$9\frac{1}{2}$	8	$10\frac{1}{2}$	9	0	9	$1\frac{1}{2}$	n
8	$7\frac{3}{4}$	8	$9\frac{1}{2}$	9	$0\frac{3}{4}$	9	2	9	$3\frac{3}{4}$	9	5	o
8	11	9	$0\frac{3}{4}$	9	4	9	$5\frac{1}{4}$	9	$6\frac{3}{4}$	9	$8\frac{1}{2}$	p
9	$2\frac{1}{4}$	9	4	9	$7\frac{1}{2}$	9	$8\frac{1}{2}$	9	10	10	0	q
9	$5\frac{1}{4}$	9	7	9	$10\frac{3}{4}$	10	0	10	$1\frac{1}{2}$	10	$3\frac{1}{4}$	r
9	$8\frac{1}{2}$	9	$10\frac{1}{4}$	10	2	10	$3\frac{1}{4}$	10	$4\frac{3}{4}$	10	$6\frac{3}{4}$	s
9	$11\frac{1}{2}$	10	$1\frac{1}{2}$	10	$5\frac{1}{4}$	10	$6\frac{1}{2}$	10	$8\frac{1}{4}$	10	$10\frac{1}{4}$	t
10	$2\frac{3}{4}$	10	$4\frac{3}{4}$	10	$8\frac{1}{2}$	10	10	10	$11\frac{1}{2}$	11	$1\frac{1}{2}$	u
10	6	10	8	11	0	11	$1\frac{1}{4}$	11	3	11	5	v
10	9	10	11	11	$3\frac{1}{4}$	11	$4\frac{1}{2}$	11	$6\frac{1}{4}$	11	$8\frac{1}{2}$	w
11	$0\frac{1}{4}$	12	$2\frac{1}{4}$	11	$6\frac{1}{2}$	11	8	11	$9\frac{3}{4}$	12	0	x
11	$3\frac{1}{4}$	11	$5\frac{1}{2}$	11	$9\frac{3}{4}$	11	$11\frac{1}{4}$	12	1	12	$3\frac{1}{4}$	y
11	$6\frac{1}{2}$	11	$8\frac{3}{4}$	12	1	12	$2\frac{1}{2}$	12	$4\frac{1}{2}$	12	$6\frac{3}{4}$	z
11	$9\frac{3}{4}$	12	0	12	$4\frac{1}{2}$	12	6	12	$7\frac{3}{4}$	12	$10\frac{1}{4}$	a
12	$0\frac{3}{4}$	12	3	12	$7\frac{3}{4}$	12	$9\frac{1}{4}$	12	$11\frac{1}{4}$	13	$1\frac{1}{2}$	b
12	4	12	$6\frac{1}{4}$	12	11	13	$0\frac{1}{2}$	13	$2\frac{1}{2}$	13	5	c
12	7	12	$9\frac{1}{2}$	13	$2\frac{1}{4}$	13	4	13	6	13	$8\frac{1}{2}$	d
12	$10\frac{1}{4}$	13	$0\frac{3}{4}$	13	$5\frac{1}{2}$	13	$7\frac{1}{4}$	13	$9\frac{1}{4}$	14	0	e
13	$1\frac{1}{2}$	13	4	13	9	13	$10\frac{1}{2}$	14	$0\frac{3}{4}$	14	$3\frac{1}{4}$	f
13	$4\frac{1}{2}$	13	7	14	$0\frac{1}{4}$	14	2	14	4	14	$6\frac{3}{4}$	g
13	$7\frac{3}{4}$	13	$10\frac{1}{4}$	14	$3\frac{1}{2}$	14	$5\frac{1}{4}$	14	$7\frac{1}{2}$	14	$10\frac{1}{4}$	h

OF SPIRITS.

Refer.	1 to 6		1 to 5		1 to 4		1 to 3		1 to 2		Alco.	
	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.
a	5	$6\frac{1}{2}$	5	$8\frac{1}{4}$	5	$11\frac{1}{4}$	6	4	7	$1\frac{1}{2}$	9	6
b	5	$10\frac{1}{2}$	6	0	6	3	6	8	7	6	10	0
c	6	$1\frac{1}{2}$	6	$3\frac{1}{2}$	6	$6\frac{3}{4}$	7	0	7	$10\frac{1}{2}$	10	6
d	6	$5\frac{1}{2}$	6	7	6	$10\frac{1}{2}$	7	4	8	3	11	0
e	6	$8\frac{1}{2}$	6	$10\frac{3}{4}$	7	$2\frac{1}{4}$	7	8	8	$7\frac{1}{2}$	11	6
f	7	0	7	$2\frac{1}{4}$	7	6	8	0	9	0	12	0
g	7	$3\frac{1}{2}$	7	6	7	$9\frac{3}{4}$	8	4	9	$4\frac{1}{2}$	12	6
h	7	7	7	$9\frac{1}{2}$	8	$1\frac{1}{2}$	8	8	9	9	13	0
i	7	$10\frac{1}{2}$	8	1	8	$5\frac{1}{4}$	9	0	10	$1\frac{1}{2}$	13	6
j	8	2	8	$4\frac{3}{4}$	8	9	9	4	10	6	14	0
k	8	$5\frac{1}{2}$	8	$8\frac{1}{4}$	9	$0\frac{3}{4}$	9	8	10	$10\frac{1}{2}$	14	6
l	8	9	9	0	9	$4\frac{1}{2}$	10	0	11	3	15	0
m	9	$0\frac{1}{2}$	9	$3\frac{1}{2}$	9	$8\frac{1}{4}$	10	4	11	$7\frac{1}{2}$	15	6
n	9	4	9	7	10	0	10	8	12	0	16	0
o	9	$7\frac{1}{2}$	9	$10\frac{3}{4}$	10	$3\frac{3}{4}$	11	0	12	$4\frac{1}{2}$	16	6
p	9	$11\frac{1}{2}$	10	$2\frac{1}{4}$	10	$7\frac{1}{2}$	11	4	12	9	17	0
q	10	$2\frac{1}{2}$	10	6	10	$11\frac{1}{4}$	11	8	13	$1\frac{1}{2}$	17	6
r	10	6	10	$9\frac{1}{2}$	11	3	12	0	13	6	18	0
s	10	$9\frac{1}{2}$	11	1	11	$6\frac{3}{4}$	12	4	13	$10\frac{1}{2}$	18	6
t	11	1	11	$4\frac{3}{4}$	11	$10\frac{1}{2}$	12	8	14	3	19	0
u	11	$4\frac{1}{2}$	11	$8\frac{1}{4}$	12	$2\frac{1}{4}$	13	0	14	$7\frac{1}{7}$	19	6
v	11	8	12	0	12	6	13	4	15	0	20	0
w	11	$11\frac{1}{2}$	12	$3\frac{1}{2}$	12	$9\frac{3}{4}$	13	8	15	$4\frac{1}{2}$	20	6
x	12	3	12	7	13	$1\frac{1}{2}$	14	0	15	9	21	0
y	12	$6\frac{1}{2}$	12	$10\frac{3}{4}$	13	$5\frac{1}{4}$	14	4	16	$1\frac{1}{2}$	21	6
z	12	10	13	$2\frac{1}{4}$	13	9	14	8	16	6	22	0
a	13	$1\frac{1}{2}$	13	6	14	$0\frac{3}{4}$	15	0	16	$10\frac{1}{2}$	22	6
b	13	5	13	$9\frac{1}{2}$	14	$4\frac{1}{2}$	15	4	17	3	23	0
c	13	$8\frac{1}{2}$	14	1	14	$8\frac{1}{4}$	15	8	17	$7\frac{1}{2}$	23	6
d	14	0	14	$4\frac{3}{4}$	15	0	16	0	18	0	24	0
e	14	$3\frac{1}{2}$	14	$8\frac{1}{4}$	15	$3\frac{3}{4}$	16	4	18	$4\frac{1}{2}$	24	6
f	14	7	15	0	15	$7\frac{1}{2}$	16	8	18	9	25	0
g	14	$10\frac{1}{2}$	15	$3\frac{1}{2}$	15	$11\frac{1}{4}$	17	0	19	$1\frac{1}{2}$	25	6
h	15	2	15	7	16	3	17	4	19	6	26	0

F I N I S.

